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Technical AV solutions guide | 01252 876300

Welcome to our latest AV Technology guide

With an exciting year ahead of us, the progression of technology into so many new markets shows no sign of slowing down.

New to us this year is the introduction of AMX - the leading manufacturer in the AV control and automation market. Such is the versatility of their technology that we have quickly opened up new opportunities in specialist markets for them. ATEN have also joined us this year with the introduction of the VanCryst range of AV extension and switching solutions, along with their full KVM range.

The variety of applications we have found our products in is really pushing the boundaries of the technologies, and we love being able to support and help you win business through our specialist sales teams and dedicated demonstration facilities. We have invested further in our training facilities at True Colours and are continuing to offer a range of CPD courses both at Crowthorne and, new this year, in our group northern office in Manchester. Our Technology Workshops will continue to run throughout 2013 after the success of last year. Further information on our comprehensive training can be found later in this guide.

Partnerships, we believe, are the key to success and we aim to help support and grow the opportunities you may find to win business in new areas. In this guide, we have included introductions to specialist areas of our business that complement the core product requirement, all backed by experts in the areas of Security, Audio, VC and asset management. Simply contact your account manager for further information on how we can assist you in these areas.

Thank you for your continued support.

Iain Campbell
Sales Director
Iain.campbell@true-colours.net

the Midwich Group

With its associated companies, the Midwich Group serves more than 7,000 customers in the UK, Ireland, France and Australia. A raft of industry awards, awarded through customer votes and vendor recognition spanning many years, are testament to our service and expertise. We have made The Times Top Track 250 list for the past four years in succession and, with expertise in AV, IT, consumer electronics, Pro Audio, auto-ID and security, we deliver the complete solution and service expected from Europe's leading AV distributor*.

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True Colours product training and services

market sectors

Throughout this guide we will show you which products are used in today's most popular solutions.
Keep an eye out for these key symbols.

Leading IPTV Delivery

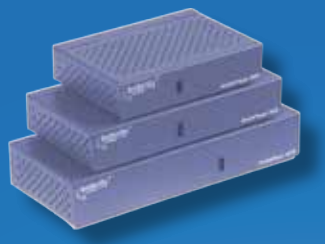
Create, configure and control content, system availability and performance with Exterity enterprise IPTV

Anytime, any place, anywhere

Whenever your customers require video and audio, Exterity products deliver it

- Live TV
- Encoding
- Transcoding
- VoD
- Desktop viewing

AvediaPlayer Receiver Interface



AvediaPlayer Receivers

AvediaServer

AvediaStream TVgateway

IPTV Solutions for Every Market

System Integrators all over the world integrate Exterity products with specialised third party applications, providing industry specific enterprise IPTV solutions

- Hotel Management Systems
- Patient Information Systems
- Digital Signage
- Room Control
- Mobile Delivery Technologies

HQ Edinburgh, UK. Regional offices in Atlanta, Dubai, Hong Kong, Johannesburg, London and Paris.

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streaming media

exterity®

Exterity Limited has been delivering enterprise-class building IPTV solutions since 2001, and today its products are used in 40 countries by thousands of customers, including some of the world's largest corporations. Exterity products enable organizations to distribute broadcast-quality digital TV and video over building or campus IP networks (LANs) to a virtually unlimited number of users, with centralised management, configuration and control. www.exterity.com

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CABLETIME

Cabletime is a leading player in the IPTV, digital media and distributed signage sector, designing and manufacturing products that provide innovative media distribution systems for organisations of every kind; across the world. www.cabletime.com

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Exterity StreamForce Program

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The StreamForce Channel Program is designed to help Partners using Exterity IPTV products grow and develop their business by providing technical expertise specifically tailored for their market, and training to help maximise their system potential

StreamForce Platinum Partner

Exterity Platinum Partners exhibit the highest level of solutions and systems integration capabilities and enjoy the highest profit margins

StreamForce Premier Partner

Exterity Premier Partners are a major focus of the StreamForce Channel Program and benefit from enhanced profit margins as a strong supplier in their field

StreamForce Accredited Partner

Exterity Accredited Partners have the backing of Exterity and their distributor, to quickly gain the IP and AV expertise needed to build a thriving IPTV business

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market sectors

AvediaStream Gateways

AvediaStream TV gateway blades capture live TV and radio to make the channels available to end-users over your building, campus or metropolitan-area IP network. Typically, a digital receiver connected to a terrestrial TV aerial (DVB-T or ATSC), a satellite dish (DVB-S/S2), or cable TV connection (DVB-C) supplies the signal to the TV gateway, which captures an entire multiplex of SD and HD broadcasted channels. It then streams these, simultaneously, as individual MPEG channels on the network.

AvediaStream G4130 DVB-T Gateway
EXTAVSTRG4130

Features and benefits:

- Provide live terrestrial news, sports, entertainment and educational TV
- Two DVB-T tuners per blade for twice the number of potential TV or radio channels compared to single tuner devices

AvediaStream G4210 DVB-S/S2 Gateway
EXTAVSTRC1103UK

Features and benefits:

- Provide live satellite news, sports, entertainment and educational TV
- Streams both SD and HD channels simultaneously
- Two DVB-S/S2 tuners per blade for twice the number of potential channels compared to single tuner devices

AvediaStream G4310 DVB-T Gateway
EXTAVSTRG4310

Features and benefits:

- Each tuner supports satellite DVB-S or DVB-S2 format
- Stream any combination of SD or HD FTA channels from each tuner up to 80Mbps
- Stream DVB-S2 channels from multiplexes with data rates up to 72Mbps

AvediaStream G4315 DVB-T2 Gateway
EXTAVSTRG4315

Features and benefits:

- Descramble and distribute encrypted and FTA content from two DVB-S/S2 satellite sources
- Two tuners combined with two DVB-CI CA slots for scrambled and FTA channels
- Interoperates with a wide range of commercial and professional CAMs

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AvediaStream Encoders

Use AvediaStream Encoders for any building, campus or metropolitan area in which video or decrypted TV are required, without the added expense of a separate cable network solely for TV.

Use your existing IP network to distribute video from cameras or DVD/Blu-ray players, or TV from set-top boxes.

- Encode Standard Definition (SD) and High Definition (HD) video and audio into MPEG streams
- Add display devices and users without degrading picture quality
- Control video and TV access

AvediaStream e3635 Encoder
EXTAVSTRE3635

Features and benefits:

- Accepts wide range of video input resolutions and scales to standard TV resolutions
- Can upscale a source up to 1080p or downscale it to SQCIF
- 1080p, 1080i, 720p, ED, SD or Sub-SD encoding
- Video input options: HD AV or RGBHV
- Audio input options: HD AV, unbalanced stereo or S/PDIF
- HD or SD H.264 video encoding from devices such as Blu-ray disc players, digital signage systems and PCs
- IR out for remote control of source device

AvediaStream e2320 Encoder
EXTAVSTRE2320

Features and benefits:

- Outputs MPEG-2 transport stream over UDP or RTP as IP multicast or unicast stream
- Dual encoder in single blade for cost-effective installations
- MPEG-2 or H.264 video encoding
- SD or Sub-SD encoding
- Video inputs: composite, SD component, RGBS, S-video
- Audio inputs: unbalanced stereo
- Hot swap blade allows quick and non-intrusive upgrade to existing installations using Exterity chassis options (c1101, c1103, c1110)
- Embedded system for high reliability and low power consumption

AvediaStream e3655 Encoder
EXTAVSTRE3655

Features and benefits:

- Accepts 3G/HD/SDI input resolutions and scales to standard TV resolutions up to 1080i
- 1080p, 1080i, 720p, ED or SD encoding
- Audio input options: embedded audio or S/PDIF
- HD or SD H.264 video encoding from devices such as professional cameras and recorders
- Pass-through output for chaining device

Technical solutions:

Use your existing IP network to distribute video from security cameras. Exterity offer SDI encoders for camera sources, allowing your CCTV content to be streamed at high definition with minimal latency. The True Colours team will work closely with the Security Team to ensure compatible products are specified for your project allowing Live Camera, TV, Video and Signage streams to be distributed over your LAN without the added expense of a separate cable network. All content can be controlled centrally to ensure that relevant media only is available to specified displays.

Leading IPTV Delivery

Get more from existing network investment

Why IPTV?

- Extend the reach of TV and Video communications beyond traditional IPTV
- Leverage organisational LAN bandwidth to deliver HD quality experience to high volumes of users
- Reduce costly internet bandwidth usage charges
- Increase access to and control of IPTV services by content type, channel, business unit, group or individual user

AvediaServer

AvediaPlayer Desktop

Why Exterity?

- Committed to proactive partner support and channel development through our StreamForce programme
- The broadest range of technically superior enterprise IPTV products and systems available
- Over ten year track record in designing, manufacturing and delivering scalable, reliable and robust solutions
- Installed in over 40 countries spanning every vertical sector

HQ Edinburgh, UK. Regional offices in Atlanta, Dubai, Hong Kong, Johannesburg, London and Paris.

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AvediaPlayer Receivers

Connect any TV or AV display to your existing IP network to receive digital TV channels and other video sources.

- Supports both Standard Definition (SD) and High Definition (HD) up to 1080p
- The Receiver Development Kit (RDK) allows customisation of user interface and integration with third-party middleware or control systems
- Central configuration and control via SNMP, web management interface or AvediaServer Director
- Power over Ethernet (PoE) simplifies installation, saves cabling and power point costs
- iPhone / iPad application for user control of channel, volume, language and more via Wi-Fi
- Multiple mounting options including optional behind-screen cage mounts for device protection

AvediaPlayer r9200
EXTAVPLYR9200

Features and benefits:

The AvediaPlayer r9200 connects an SD or HD TV to your existing IP network to receive digital TV channels and other video sources. It features a single Ethernet port and an HDMI output in a compact form factor with the lowest power consumption of all Exterity's receivers.

AvediaPlayer r9210
EXTAVPLYR9210

Features and benefits:

The AvediaPlayer r9210 can connect almost any TV or AV display to your IP Network. Building on the foundation of the r9200, it adds numerous additional analogue outputs to extend the life of existing AV equipment and is the most versatile of Exterity's receivers.

AvediaPlayer r9220
EXTAVPLYR9220

Features and benefits:

The AvediaPlayer r9220 combines the delivery of SD or HD video with three additional Ethernet ports that enable organisations to provide additional services (e.g. voice, Internet access and business applications) via one device for lower capital and operating costs.

Technical solutions:	DEXON Systems have recently completed the integration of direct IPTV decode on their 4600 and 4800 series image processors allowing the display of multiple IPTV UDP streams on to a single or multiple display array. With the new development it removes the need to have decoder endpoints for every simultaneous stream near the processor, with the requirement to only have a single network connection which is utilised to decode all streams simultaneously but are handled as separate inputs within the control interface.

streaming media

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AvediaStream c1110 and AvediaStream Chassis Monitor
EXTAVSTRC1110UK+EXTC1110MON

Our largest and most advanced IPTV chassis supports 10 blades with built-in redundancy.

- Passive backplane for high performance
- Redundant power supplies for higher availability
- Hot-swap cooling fans allow replacement without the need to power-down the unit
- 4U 19" rack

Features and benefits:

The AvediaStream Chassis Monitor adds hardware monitoring to the Exterity 10 blade chassis (c1110).

AvediaStream Chassis Monitor
- Early warning of issues and changes via SNMP traps
- Integration into IPTV control systems
- Hot swap blade allows quick and non-intrusive upgrade to existing installations using Exterity chassis c1110
- Improves overall IPTV solution reliability
- Visual indication of chassis and blade status via front panel LEDs

AvediaServer C1510 EXTAVSRVC1510
AvediaServer M6110 EXTAVSRVM6110

AvediaServer provides applications that deliver advanced functionality, scheduling, content storage, playback, asset management, VoD and IPTV system configuration and management.

AvediaServer
- Video on demand
- Access to stored assets
- Pause and time shift

Streaming
- Create and schedule TV channels

Record
- Centralised recording

AvediaServer
- Portal and EPG
- Customisable interface and channel guide
- Record from channel guide

Management
- Control, configure and monitor complete IPTV system
- Monitor devices on the network and their status
- Monitor channels on the network and their status

AvediaPlayer Desktop

Features and benefits:

- Enables centrally managed viewing of any IPTV content on networked PCs
- No software installation required

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Exterity StreamForce Program

The StreamForce Channel Program is designed to help Partners using Exterity IPTV products grow and develop their business by providing technical expertise specifically tailored for their market, and training to help maximise their system potential

Exterity Platinum Partners exhibit the highest level of solutions and systems integration capabilities and enjoy the highest profit margins

Exterity Premier Partners are a major focus of the StreamForce Channel Program and benefit from enhanced profit margins as a strong supplier in their field

Exterity Accredited Partners have the backing of Exterity and their distributor, to quickly gain the IP and AV expertise needed to build a thriving IPTV business

StreamForce Benefits

- **Dedicated sales manager**
  a direct contact for all your needs
- **Project registration**
  protect the up front investment in an opportunity
- **Bid support**
  assistance with writing specifications for RFPs
- **Marketing investment**
  build points towards joint marketing activity
- **Direct technical support from Exterity**
  expedite problem resolution
- **Lead distribution**
  qualified leads for increased business
- **Training programs**
  commercial and advanced technical education

Exterity has an expanding network of systems integrators and value added resellers which now spans over 40 countries and includes some of the world's most recognised brands.

Join the Exterity StreamForce Channel Program today visit www.exterity.com or call us on +44 (0)1383 828250

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Leading IPTV Delivery

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streaming media

market sectors

Why MediaStar?

Whatever the size of your business, whatever your media needs, our expertise and versatile product range means we will have a solution that will work for you, cost-effectively and efficiently.

With over 25 years' experience in providing IPTV, multimedia and digital signage systems to clients around the world, we understand the diverse requirements of a huge range of organisations. You can count on us to deliver some compelling benefits:

Quality:
The MediaStar range enables clear, accurate and rapid delivery of media assets.

Innovation:
We use cutting-edge technology to deliver the very best possible solutions.

Focus:
We take the time to understand clients' needs and deliver the functionality that they need, not what we want to sell.

Minimum disruption:
We deliver solutions that can use existing infrastructure and maximise ROI.

Flexibility:
We offer both on-LAN and off-LAN solutions, so users can choose the size and functionality to suit their organisation.

Scalability:
Users can add sources and users whenever they need, while maintaining the very highest quality.

Manageability:
Users can monitor output and take control of the media environment they are creating for their particular business.

Environmentally friendly:
Power management of all your screens and MediaStar hardware prolongs life and reduces costs as well as the environment load.

How it works

Creates a multi-channel TV and AV distribution system over IP by choosing from any combination of services; from digital terrestrial TV, such as Freeview; digital satellite TV, such as FreeSat, Pay TV services, such as SKY, and locally generated content, such as PowerPoint presentations (converted to HTML), JPEGs, PNGs and HTMLs (see diagram below).

Global media distribution using MediaStar

Using the same setup as above you can push your media to another geographical location all from one location.

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MEDIASTAR DIGITAL DISTRIBUTION SYSTEMS

CABLETIME

LAN-Caster DVB-T/T2
CAB783-T

Features and benefits:

- DVB-T / T2 LAN-Caster for digital terrestrial broadcast over IP (783)
- The MediaStar Evolution range of DVB-T LAN-Casters are a powerful and ultra-reliable, solid state out of the box solution for terrestrial TV reception and when used in conjunction with the MediaStar DVB-S satellite LAN-Casters and MPEG encoders, will meet your entire IP Television Headend, Digital Signage and Digital Media encoding and distribution requirements
- Models: 783-T / 783-T-CI; 783-T2 / 783-T2-CI
- Supports both SD and HDTV transmissions (DVB-T and T2)
- PCMCIA CI CAM Slot for multiple channel decryption
- Auto configuration with Evolution Media Manager Software
- Compact, up to 9 units in 3RU
- Delivers up to 15 channels of TV and Radio from a DVB-T/T2 multiplex
- IP command pass through and IR routing support
- Easy software upgrade path; T to T2, Non CAM to CAM operation
- Low power consumption (7W)

LAN-Caster DVB-S2
CAB784-S2

Features and benefits:

- DVB-S/S2 LAN-Caster for digital satellite broadcast over IP (784)
- The MediaStar Evolution range of DVB-S LAN-Casters are a powerful and ultra-reliable, solid state out of the box solution for satellite TV reception and when used in conjunction with the MediaStar DVB-T LAN-Casters and MPEG Encoders, will meet your entire IP Television Headend, Digital Signage and Digital Media encoding and distribution requirements
- Models: 784-S2 / 784-S2-CI
- Supports both SD and HDTV transmissions (DVB-S/S2)
- PCMCIA CI CAM slot for multiple channel decryption
- Auto configuration with Evolution Media Manager Software
- Compact, up to 9 units in 3RU
- Delivers up to 15 channels of TV and Radio from a DVB-S multiplex
- IP command pass through and IR routing support
- Easy software upgrade path; non CAM to CAM operation
- Low power consumption (7W)

Multi Format Encoder
CAB778-S-SD

Features and benefits:

- Multi format input SD/HD, MPEG-encoder for digital media distribution over IP (778)
- The MediaStar Evolution range of MPEG Encoders are a powerful and ultra-reliable, solid state out of the box solution for all encoding needs and when used in conjunction with the MediaStar DVB-T and DVB-S LAN-casters, will meet your entire IP Television Headend, Digital Signage and Digital Media encoding and IP distribution requirements
- Models: 778-S-SD, 778-S-720p, 778-S-HD
- Standard and High Definition encoding
- Compatible with virtually all video interfaces
- Auto discovery and configuration
- Compact, up to 9 units in 3RU
- Output resolutions up to 1080i50/60 1080p25/30
- Compatible with standard viewers
- QUICK TIME©
- Easy upgrade option - SD to HD
- Low power consumption (18W)
- IR to RS-232 pass through and IR routing support

Technical solutions:

IPTV Encoders make the output of Digital Signage players available network-wide to informational displays in public areas (e.g. on large-screen plasma displays). The fine-grained control over content and scheduling available through the software application, and the easy content management afforded by the appliances, make it easy to present compelling Digital Signage throughout a chosen location. You can schedule content presentation, control where it is displayed, and even control the volume on the display devices from a central point.

streaming media

CABLETIME

MEDIASTAR
DIGITAL DISTRIBUTION SYSTEMS

Digital Media (SD) Decoder
CAB780-SD

Features and benefits:

- 780 SD Digital Media Decoder and IP Television Receiver
- MediaStar Digital Media Decoders are a powerful and ultra-reliable, solid state out of the box solution for your entire IP Television, Digital Signage and Digital Media delivery requirements
- Models: 780–SD and 780–SD-PoE
- Decodes H264 and MPEG-2 network streams
- Browser renders HTMLs; JPEGS; PNGS and Web pages
- Dual display support - HDMI and YPbPr outputs
- Low power consumption - DC adaptor or PoE options
- Supports DVB subtitles, stereo audio and multi language selection
- Display control via CEC (HDMI) and RS232; Alarm inputs x 2
- IR pass back - for back channel IR support

Digital Media (HD) Decoder
CAB780-HD

Features and benefits:

- 780 HD/SD Digital Media Decoder and IP Television Receiver
- MediaStar Digital Media Decoders are a powerful and ultra-reliable, solid state out of the box solution for your entire IP Television, Digital Signage and Digital Media delivery requirements
- Models: 780–HD and 780–HD-PoE
- Decodes H264 and MPEG-2 network streams
- Browser renders HTMLs; JPEGS; PNGS and Web pages
- Dual display support - HDMI and YPbPr outputs
- Low power consumption - DC adaptor or PoE options
- Supports DVB subtitles, stereo audio and multi language selection
- Display control via CEC (HDMI) and RS232; Alarm inputs x 2
- IR pass back - for back channel IR support
- Live RRS and Local Ticker

Digital Media (8GB) Decoder
CAB780-8GB

Features and benefits:

- 780 HD/SD Digital Media Decoder and IP Television Receiver
- MediaStar Digital Media Decoders are a powerful and ultra-reliable, solid state out of the box solution for your entire IP Television, Digital Signage and Digital Media delivery requirements
- Models: 780-xGB and 780–xGB-PoE
- Decodes H264 and MPEG-2 network streams
- Plays video files from on-board memory
- Browser renders HTMLs; JPEGS; PNGS and Web pages
- Dual display support - HDMI and YPbPr outputs
- Low power consumption - DC adaptor or PoE options
- Supports DVB subtitles, stereo audio and multi language selection
- Display control via CEC (HDMI) and RS232; Alarm inputs x 2
- IR pass back - for back channel IR support

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Multi Format Encoder CAB779-S-SD

Features and benefits:

- The MediaStar Evolution range of MPEG Encoders are a powerful and ultra-reliable, solid state out of the box solution for all encoding needs and when used in conjunction with the MediaStar DVB-T and DVB-S LAN-casters, will meet your entire IP Television Headend, Digital Signage and Digital Media encoding and IP distribution requirements
- Models: 779-S-SD, 779-S-720p, 779-S-HD
- Standard and High Definition
- Encoding
- Compatible with virtually all video interfaces
- Auto discovery and configuration
- Solid and robust metal case
- Output resolutions up to 1080i50/60 1080p25/30
- Compatible with standard viewers
- QuickTime©
- Easy upgrade option - SD to HD
- Low power consumption (20W)

Chassis CAB770

Features and benefits:

- Chassis (770) with integral Power Supply Unit (771)
- 770 Chassis for Evolution 778, 783, 784 blades
- This is a 19" rack enclosure which is used to house any combination of MediaStar Evolution 'blade' based processor modules. These include the MediaStar 778 MPEG encoders, the 783 DVB-T/T2 LAN-Caster and the 784 DVB-S2 LAN-Caster units (these units are supplied separately to the rack enclosure). Any combination of up to 9 processor modules can be fitted into a single rack

Desktop Evolution Viewer CAB761

Features and benefits:

- Provides easy MPEG-2 and H.264 viewing at the desktop. The MediaStar Evolution 761 works in conjunction with the Evolution 778, 779, 784 and 783 in viewing MPEG-2 and H.264 video streams. The HTML based or EXEC versions allow for easy implementation within a corporate LAN. Channel profiles can be held centrally to allow group profiles across the LAN

Digital Media Manager CAB467

The Evolution Digital Media Manager provides a comprehensive and flexible IPTV and Media distribution and monitoring solution, which allows video, audio and digital media to be delivered and managed throughout the corporate LAN.

Media Manager has a fully integrated media content management system presenting a single interface to control all the media sources while monitoring all aspects of the digital head-end and multiple digital media decoders. Media Manager allows you to conveniently drag and drop different types of media, including PowerPoint presentations converted to HTML, MPEG2 and H.264 streams, S/HD files, PNG, JPEG and Web pages onto a DMD.

Features and benefits:

- Tailor the message(s) to dedicated screen(s)
- Synchronise the message across the LAN
- Automatically update all locations
- Schedule IPTV and Signage content delivery by day, week or calendar to individual locations
- Supervise all hardware resources – comply with facilities' screen power management needs
- Estate floor plans integral to the application to aid screen / STB locations and media and IPTV scheduling
- Trigger embedded content and schedule content via 3rd party devices
- Manage selection via remote devices: iPhone, iPad and Android

Shuffle
IPOD
Linkin Park
Numb
Meteora
1:36
Repeat
Menu
Playlists
Artists
Albums
Songs
Genres
Select
Lights &
Shades
Music

control solutions

Innovative AMX technology ensures that a building's integrated systems, including entertainment, access, security, lighting, blinds and environmental systems, all are centrally managed and easily controlled at the touch of a button. www.amx.com **18**

Specialising in products that are easy to use and simple to install, SP Controls changed the way people think about single-projector rooms with the elegant Pixie IR/RS-232 room controllers. www.spcontrols.com **28**

AMX | UNIVERSITY

At AMX we understand that people and company's who take the time to receive training and reach the standard of certification, deserve special credit and recognition.

As a result, AMX is proud to offer the AMX Certified Expert (ACE) Program. The program is designed to give special credit and recognition to the individuals and company's who have gone above and beyond to become certified.

New Certifications for 2013, now available via AMX University.

For more info visit **www.amx.com/training**

control solutions

market sectors

AMX Technology – Putting You in Control

AMX has been developing innovative technologies to simplify the corporate and residential worlds for the last 30 years.

Today's workplaces and homes incorporate an increasing number of technologies and operating platforms. To get the most value from these systems, a comprehensive, easy to understand and user-friendly control and management system is essential. AMX provides the most capable and proven solutions in the industry available for centralised control.

Innovative AMX technology ensures that a building's integrated systems, including entertainment, access, security, lighting, blinds and environmental systems, are centrally managed and all easily controlled at the touch of a button.

AMX technology is in use worldwide in conference rooms, classrooms, network control centres, hotels, entertainment venues, broadcast facilities and homes.

Modero X Series

The latest edition to AMX's award-winning Modero touchpanel range is the Modero X Series family of frameless, panoramic and widescreen touchpanels.

Offering an intuitive user experience and a truly ergonomic design, the Modero X Series redefines touchpanel technology by giving users a new 'control surface' on which to perform multiple activities, all at the same time. Putting a new perspective on the concept of touchpanel design, the Modero X Series combines edge-2-edge glass and a low-profile, to deliver a more usable space and a richly engaging user experience.

Features and benefits:

- Panoramic and widescreen control surface – an impressive control surface on which to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- Latest communication technologies – HD video chat and conferencing using integrated camera (tabletop and landscape versions only) and supports Near Field Communication (NFC)
- Enhanced usability – external phone connections via Bluetooth or USB and HD video streaming
- Advanced graphics – the Modero X Series includes intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- Perfect from any angle – includes In-Plane Switching (IPS)

Technical solutions:	AMX Device Discovery is a technology integrated into manufacturers' products to make programming easy and operation with an AMX control system effortless. By embedding this AMX exclusively designed technology into their products, the industry-leading manufacturers that offer this support are improving the way A/V installations are programmed, managed and operated.

UNITY

The perfect interface. It's in here.

Presentations
Audio Conferencing
Video Conferencing

AMX MODERO X SERIES PANORAMIC TOUCH PANELS

AMX has unified technologies to simplify your world. Whether you are a CEO meeting with 24 attendees in a global video conference or a teacher lecturing for a multi-continent distance learning session—everything is accomplished with ease from the Modero X Series Panoramic Touch Panel. This new aspect ratio is a revolutionary way of combining the form and function of the touch panel by introducing a new form factor that celebrates the functionality you expect. The end result is an interface that has never so strikingly put the user in such direct contact with the simplification of technology.

- Audio Video Conferencing
- Presentations
- Distance Learning
- Automation/Control
- Media Management

CONTROL & AUTOMATE | MEDIA SWITCHING | ARCHITECTURAL CONNECTIVITY | DIGITAL SIGNAGE | RESOURCE MANAGEMENT

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Enova DGX 16 and 32 Digital Media Switchers

The award-winning Enova DGX 16 and 32 Digital Media Switchers are the industry's first modular digital media switchers with a built-in central controller.

The Enova DGX 16 and 32 resolve copy protection issues, centrally manage connected devices and overcome many of the challenges facing integrators today. They manage and distribute analogue plus digital audio and video including HDMI with HDCP (HDMI / HDCP), control and Ethernet without any of the typical problems associated with HDCP authenticated content distribution and switching.

Features and benefits:

- HDMI / HDCP switching with simplicity of analogue using InstaGate Pro technology
- AV and control over twisted pair
- Embedded NetLinx controller – allows any connected device to be managed, monitored or controlled
- Integrated Ethernet switch – pass Ethernet or stream IP video through the attached DXLink transmitter or receiver
- Analogue to digital video conversion with scaled outputs
- 4 RU enclosure

Enova DGX-8 Digital Media Switcher

When 8 is enough – all the features, capabilities and functionality of the Enova DGX Series in an enclosure built for smaller applications.

- HDMI / HDCP compliance – end-to-end distribution of HDMI signals with full HDCP, with the simplicity of analogue, without interruption or key constraints using InstaGate Pro™ technology
- Analogue, digital and IP audio / video over Cat5 – convert any source signal and use SmartScale® to ensure every displays native resolution plus route IP all from a single box
- Embedded NI controller and Ethernet switch – Allows any connected device to be managed, monitored or controlled

Technical solutions:	AMX hardware and software solutions simplify the way people interact with technology. With the increasing number of technologies and operating platforms at work and home, AMX solves the complexity of managing this technology with reliable, consistent and scalable systems.

control solutions

Enova DVX-3150HD

10x4 all-in-one presentation switchers (multi-format, HDMI inputs)

The Enova DVX-3150HD is the only all-in-one presentation switcher that seamlessly handles both analogue and digital AV, makes HDCP as easy to install as analogue and delivers picture-perfect video and pristine audio – all in a single 3U box. Designed to meet the needs of most conference rooms, classrooms and auditoriums, the Enova DVX-3150HD is poised to change the future of AV room solutions.

Features and benefits for both DVX-3150HD and DVX-2150HD

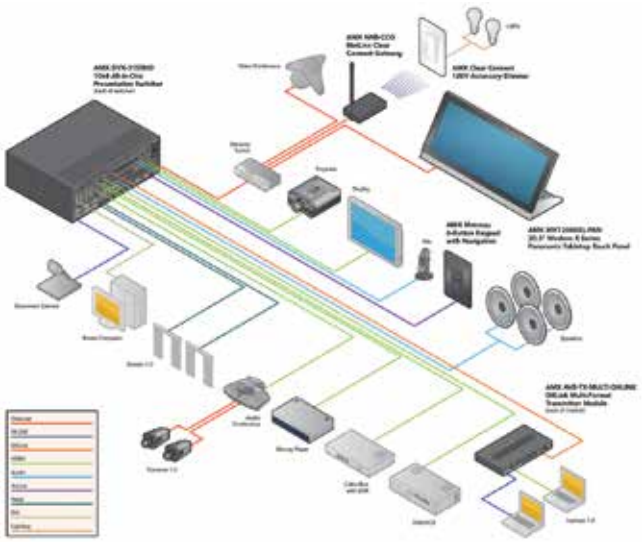
- All-in-one presentation switcher in a 3 RU box
- HDMI / HDCP switching with simplicity of analogue using InstaGate Pro technology
- Matrix switching
- SmartScale technology
- AV and control over twisted pair
- Analogue to digital video conversion with scaled outputs
- Saves energy
- Game changing device – standardising on this box reduces total cost of ownership

Enova DVX-2150HD

6x3 all-in-one presentation switchers (multi-format, HDMI inputs)

The Enova® DVX-2150HD is an all-in-one controller, AV matrix switcher, scaler, analogue to digital signal converter, twisted pair transmitter and amplifier with built-in professional grade audio processing. Easily integrate HDCP into system designs and enjoy hassle free plug-and-play operation. No tools, no delays, and no key constraints - it just works with AMX's exclusive InstaGate Pro® Technology. Designed to simplify system design and provide a future proof solution, the DVX-2150HD's multi-format video inputs support analogue and digital signals including HDMI with HDCP sources - all in the same connector. The state-of-the-art professional grade audio DSP delivers quality audio throughout a room.

Typical diagram of an all-in-one presentation switcher



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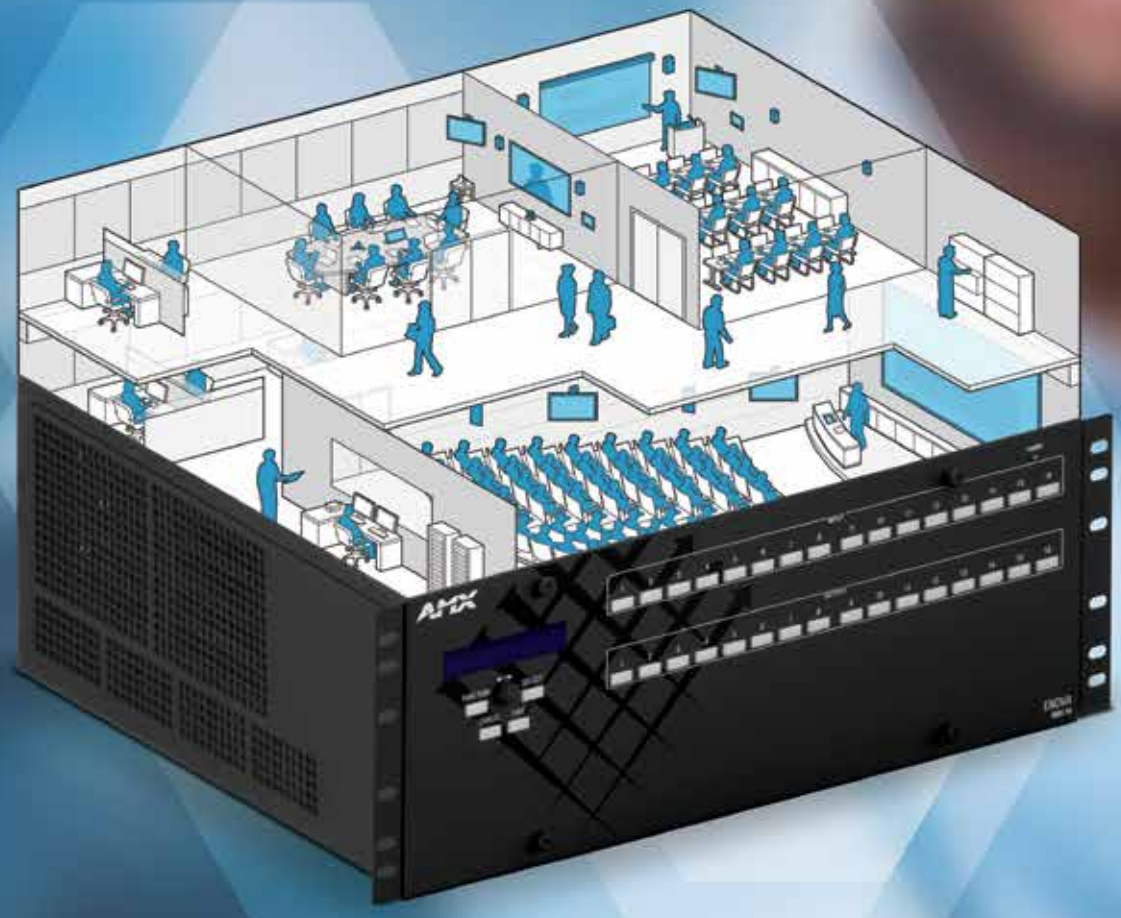

AMX ENOVA DGX

AMX understands the demands of AV and IT worlds. That's why the DGX includes an integrated NetLinx Central Controller and embedded Ethernet switch, which enable management of the entire AV solution—all from a single point. The DGX is an all-in-one control and distribution solution that combines a modular matrix switcher, a built-in controller, an embedded Ethernet switch and video scaling to every output. This integrated solution simplifies the end-to-end distribution and management of audio, video and control.

CENTRALISED AV/IT APPLICATIONS:

- AV Conferencing
- Control/Automation
- Media Switching
- Media Distribution
- Remote PC Access
- HDCP Management

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control solutions

NetLinx NI-Series

Controllers Comparison Chart

FEATURE	NI-700	NI-900	NI-200	Enova DVX-2100HD	NI-3100 / NI-3100/256	Enova DVX-3150HD	NI-3101-SIG	NI-4100 / NI-4100/256
Integrated NetLinx Master	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integrated A/V Switcher / Scaler	No	No	No	Yes	No	Yes	No	No
AxLink Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICSNet Interface	No	No	Optional	No	Optional	No	No	Yes
10/100 Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital Input / Output Ports	4	4	4	4	8	8	8	8
RS-232 / RS-422 / RS-485 Ports	2	1	3	3	7	6	6	7
IR/Serial Output Ports	1	3	4	4	8	8	8	8
Relay Ports	-	-	4	4	8	8	8	8
Expansion Card Slots	No	No	No	No	No	No	No	Yes
IR Receiver Port	Yes	Yes	No	No	No	No	No	No
Programming via Serial Port / Ethernet	Yes / Yes	Yes / Yes	Yes / Yes	USB / Yes	Yes / Yes	Yes / Yes	USB / Yes	Yes / Yes
Built-in Web Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Processor Speed	304MPS	304MPS	404MPS	404MPS	404MPS	404MPS	404MPS	404MPS
On-Board Memory RAM	64MB	64MB	64MB	64MB	64MB / 256MB	256MB	64MB	64MB / 256MB
Non-Volatile Memory	512KB	512KB	1MB	1MB	1MB	1MB	1MB	1MB
FLASH Memory	32MB	32MB	2GB CF Card	256MB	2GB CF Card	256MB	256MB	2GB CF Card
Rack Space	1 RU x 1/3	1 RU x 1/3	2 RU	2 Ru	2 RU	3 RU	1 RU	3 RU

Central Controllers

NetLinx® Integrated Controller NI-700

The NI-700 unit is geared to meet the specific control and automation needs of a single room environment, in which both price and functionality are the driving requirements. The NI-700 is configured to control a limited number of video players, projectors, lights, thermostats and other electronic equipment.

Common application

Ideal for single-room environments with a limited number of devices such as classrooms, conference rooms, hotel rooms and other applications.

Features and benefits:

- Ultra-fast 304 MIPS processor
- 2 configurable RS-232 / RS-422 / RS-485 serial ports
- 1 IR / serial port
- 1 IR receiver port
- 4 digital I/O channels
- 1 Ethernet 10/100 port
- 1 AxLink connector
- 64MB RAM
- 32MB flash memory
- 512KB non-volatile memory
- AMX device discovery enabled
- JITC compliant

NetLinx® Integrated Controller NI-900

The NI-900 unit is designed to control and automate a variety of devices in single rooms or multiple small rooms and is capable of supporting devices with a variety of communication formats. It is configured to control a limited number of lights, thermostats, video displays and other equipment.

Common application

Perfect for single rooms or two or more small rooms with a limited number of devices such as home theatres, MDUs, hotel rooms and other environments.

Features and benefits:

- 1 configurable RS-232 / RS-422 / RS-485 serial port
- 3 IR / serial ports
- 1 IR receiver port
- 4 digital I/O ports
- 2 communication networks: AxLink and Ethernet (TCP/IP)
- 304 MIPS processor speeds
- 64MB RAM
- 32MB flash memory
- 512KB non-volatile memory
- AMX device discovery enabled
- JITC compliant

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Central Controllers

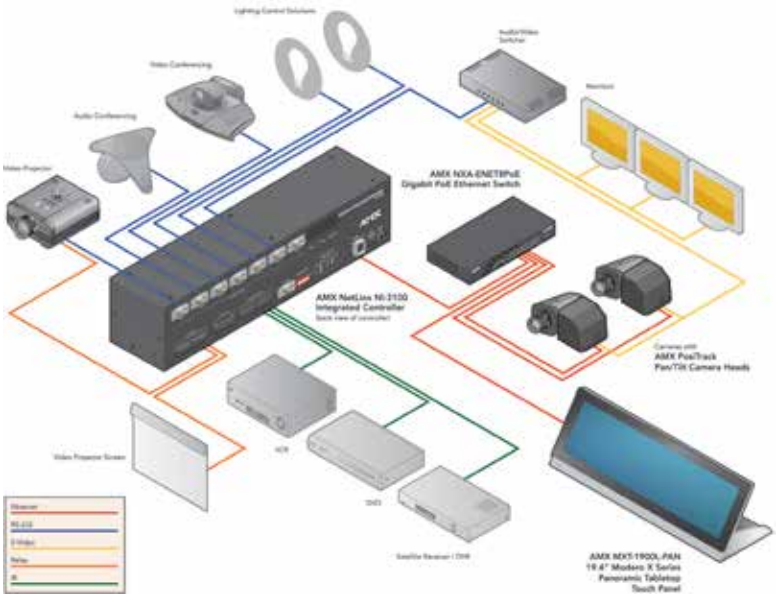
NetLink® Integrated Controller NI-3100

With the ability to integrate a large number of devices, the NI-3100 controls a wide variety of components including audio/video conferencing, projectors, DVD and Blu-ray players, lights, thermostats and other electronic equipment found in larger areas. With these technology-driven environments, the NI-3100 also provides solutions for future expansion and enables the addition of more devices and control capabilities. Offers higher performance with an ultra-fast processor, 64MB of onboard RAM and is AMX Device Discovery enabled.

Common application
The NI-3100 unit is ideally suited to the requirements of larger areas or multiple rooms with advanced control and automation features.

Features and benefits:

- 7 configurable RS-232 / RS-422 / RS-485 serial ports
- 8 relays
- 8 IR / serial ports
- 8 digital I/O ports
- 2 communication networks: AxLink and Ethernet (TCP/IP)
- 404 MIPS processor speed
- 64MB RAM or 256MB RAM
- 2GB CompactFlash (upgradeable to 4GB)
- 1MB non-volatile memory
- AMX device discovery enabled
- JITC compliant



NI-3100 diagram

NetLinx® Integrated Controller NI-4100

The NI-4100 provides versatility with the ability to integrate the largest number of devices in the NI Series of Master Controllers, including projectors, lighting, DVD and Blu-ray players, thermostats and other electronic equipment. In these technology-driven environments, this solution allows for the future addition of more devices and control capabilities. With a perfect mix of compatible formats, the NI-4100 offers flexibility and customisation for businesses experiencing rapid growth and for homes that demand seamless integration of technology and design. The NI-4100 provides higher performance with a faster processor, 64MB of onboard RAM and Duet-compatibility.

Common application
The NI-4100 is geared to meet the high-end control and automation requirements of the most sophisticated and complex commercial and residential installations.

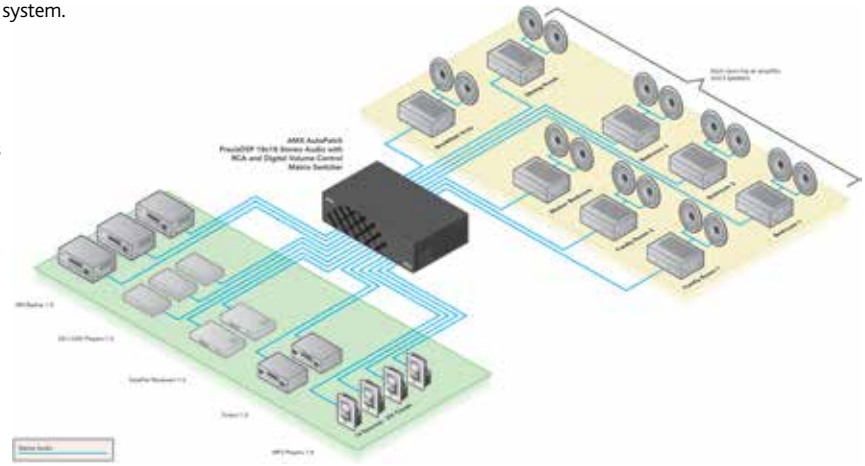
Technical solutions:	AMX simplifies technology so that anyone can control and automate their home or work environment. With one touch, a series of customized and carefully orchestrated events can be put into motion – from preparing a conference room for a presentation to setting the mood at home for entertaining.

control solutions

Precis DSP Fixed Matrix Switchers

Stereo audio with RCA digital volume control and digital signal processing - **FGP37-0808-00P**

The Precis DSP provides the ultimate solution for distributed audio by combining the functionality of a matrix switcher with the signal processing of an external equalization device. With robust features like a 10-band graphic equalizer, input gain, volume, tone, and balance control, the Precis DSP provides for exact customisation of each output to support the attributes of the room or zone. The easy-to-use AutoPatch GraphicEQ setup software tool allows installers to manage all of the audio adjustments for the Precis DSP including adjusting the input gain to eliminate noticeable differences in volume as the user switches between various sources. Available in I/O sizes 8x8 or 18x18, the Precis DSP's standard RS-232 control port utilises AutoPatch's BCS serial control protocol which allows it to be quickly and easily programmed when integrated into a control system.



Features and benefits:

- 10-band graphic equaliser on each output
- Digital balance, tone and volume control on each output
- Digital input gain control to normalise audio input voltages
- Gold-plated RCA connectors
- Standard RS-232 control port
- Supports AutoPatch's simple BCS serial control protocol
- Optional TCP/IP control via external APWeb module
- Ships with free APControl to provide easy single-user PC control of the matrix switcher
- Ships with free AutoPatch GraphicEQ setup software
- Rack mounting ears included
- Backed by our AMX 3 year warranty
- 18x18 also available

HydraPort

A new addition to AMX's HydraPort family, the 6-module, 9-module and 12-module flush-mounted units are taking this popular connection system in a new direction. Sitting nearly flush with the mount's surface, even with the lid open, these stylish additions can easily connect and control laptops, projectors, document cameras, DVD players, audio equipment and other support devices. Completely configurable, these versatile modular units easily adjust to the specific AV and power needs of any room environment.

Features and benefits:

- Future ready modular design – Features an assembly with the flexibility to change the modules to meet current and future needs
- Variety of sizes for all types of applications
- Elegant and unobtrusive – flush-mount design installs cleanly into a lectern or table
- No electrician required – HydraPort power modules can be connected directly to a wall or floor outlet
- Control the room – add Metreau or Novara keypad modules to control AV devices, lighting or blinds as well as to initiate pre-programmed events

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AMX APP

TPControl enables Apple mobile devices to transform into a fully functional touch panel for controlling AMX system platforms.

This easy-to-use application provides real-time, touch control of AV systems, lighting, shades, room temperatures and more. These mobile devices can seamlessly communicate with an AMX control system via 3G, GPRS and EDGE cellular networks, or Wi-Fi, to allow the convenience of remote use. TPControl was created by AMX APP™ (Authorised Product Partner) Touch Panel Control, and is the only Apple mobile app for control that AMX supports because it was specifically designed and thoroughly tested for use with AMX equipment.

Use the TPDesign4 application to create the user interface and then use TPTransfer (available as a separate download) for licensing and transferring the TP4 file to the mobile device.

Supported devices include: Apple iPhone, iPod Touch and iPad.

Common applications

Ideal in residences for wireless control in home theatres and whole home systems and perfect in boardrooms/conference rooms for controlling AV equipment for presentations or training. Use your existing Apple device to control your AMX solution and even take control remotely using the cellular network.

Features and benefits:

- VoiceControl - using speech-to-text and text-to-speech functionality within TPControl allows you to talk to your control system and have it talk to you. For example, you say "Turn the entry lights on" and TPControl initiates the command and replies "The entry lights are on" when completed
- AppControl - launch installed applications directly from TPControl; start an SMS, launch an email client, web pages and much more without leaving the TPControl environment
- Multi-profiles - dynamically and instantly change connection profiles such as office or home, connecting seamlessly to different control systems from the same device
- Intercom - converse from TPControl to devices such as the AMX Metreau Communicator, AMX Intercom enabled touch panels, and other TPControl enabled devices
- TPCloud - Cloud power lets you update TP4 files, change device settings or even apply tokens to TPControl devices, right from the My Account section of the Touch Panel Control website

Technical solutions:	AMX products do so much more than automate lighting, security, audio / video, and communications technology in the home; they create an experience for the homeowner. With a single touch, we bring a home theatre to life, turn out every light in the home, and create the perfect ambience of music, climate and lighting for an impromptu party.

control solutions

market sector

SP Controls Inc

Located in San Francisco, SP Controls Inc. is a manufacturer of innovative audio-visual control products. The company was founded in 1995 when years of work in audio-visual and LCD projector system installation revealed an opening for a dedicated single projector control system.

The company's current focus is in the world of customisable solutions that include products that are easily configured and expandable to change your room needs. SP Controls products represent the culmination of the company's experience and research into the use of display technology in professional and communication settings.

Pixie Euro Family

The Pixie family of controllers offers elegant and complete control systems that fit in a standard single-gang back box. The modular button design allows users flexibility in configuring the panel to match their needs.

Pixie offers intuitive control of virtually any display system with a remote control, be it a video projector, plasma screen, or LCD monitor. Controls power, volume, and switches between up to 8 inputs.

The Pixie is a perfect fit for AV installations with transient users. It eliminates the confusion caused by wandering remotes, dead batteries, and complex projector control interfaces. An untrained user can use the Pixie to control any display device with confidence and ease.

The PixieEuro Device Control Module provides a simple, standardised control interface for projectors, monitors, display devices, or other AV devices in a compact single-gang form factor. A customisable interface allows for a variety of configurations from two to eight total buttons. The unique design gives you the ability to tailor the control interface to the exact requirements of the devices being controlled. This design not only provides a professional looking control system, but allows you to eliminate any buttons that may confuse the end user. Seven button insert modules are included with each PixieEuro. You choose the three modules that match your remote control design.

Features and benefits:

- Learns IR codes from almost any remote
- Wireless cloning allows quick programming of many units
- Unique modular design allows for control of power, source, volume and more
- Elegant backlit LEDs in a variety of colours
- A single button may be programmed with multiple remote codes

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Doceri™ Set Your Presentation Free

The professional iPad interactive whiteboard and screencast recorder, with sophisticated tool for hand-drawn graphics and remote desktop control

The Doceri Classroom

Effective teachers interact with their students, not whiteboards.

Traditional blackboards and interactive whiteboards confine you to the front of the room. At a fraction of the cost of an electronic board, Doceri allows you to move freely about the room, so you can easily monitor students and ensure that they are on task and meeting educational objectives.

Technology alone won't change the face – or the fate – of education, but in the expert and innovative hands of today's educators, tools like Doceri are opening new possibilities in classrooms all over the world.

Teachers can hand their classroom iPad to a student to complete a math problem – then actually play back the steps that student took to identify where a wrong turn was made. College professors can annotate over their PowerPoint presentations either before class, playing through the annotations as they lecture or on the fly in real-time.

This partnership between SP Controls as the technology innovator, and innovative educators, is at the heart of what drives the Doceri Classroom.

Doceri App is available on the App store from iTunes

Networked Room Controller

The Networked Room Controller is a low-profile, low-cost, programming-free control system that can be configured, controlled, and monitored via a friendly Web interface. It provides relay, IR, RS-232, and general purpose sense ports. Control may be extended with PixiePro Control Puck peripherals. The PixiePro Modular Panel may be used as a front-end button interface.

Features and benefits:

- Remote management of AV solution
- Email and stats alerts
- Security loop connection
- Built-in Java application for programming and monitoring
- Large RS232 library pre-installed

Accessories

Programming Wand

The programming wand connects to the PixieEuro controller through its IR interface and allows for more sophisticated features, such as RS232 control. There is no need to remove the controller from the wall. The programming wand connects to your PC with USB and contains an application that allows you to perform more complex configuration, including specifying RS232 strings.

Features and benefits:

- Built-in Java application for programming
- One step copy and paste of commands
- USB programmable
- One programme can be learnt to many units
- Pre install setup available

Control Pucks for Networked Room Controller

Expand the network room controller's already extensive capabilities to control virtually any audio visual device in your room. Simply daisy-chain additional Control Pucks (up to 32), using CAT5 cabling as the method for interconnection. Controlling more devices has never been easier. Control Pucks are available in three configurations.

Can be used with Network Room Controller and Pixie Pro.

PX2-PUC-REL-4, four low voltages relays
PX2-PUC-232-IR, one RS-232 + one IR out
PX2PUC-IR-4, four IR out includes four IR emitters

AT-PRO3HD66M
POWER
ENTER
DEFAULT
ALL
MEMORY
FCN
CANCEL
EDID
IR
INFO
RS-232
MATRIX IN
MATRIX OUT
IR IN
IR OUT
CAT5e/6/7
COAX OUT
MAIN
BACKUP
HDMI IN
ATLONA
PROFESSIONAL
MAIN POWER
BACKUP POWER
AT-PRO2HD88
Select input number
ENTER
CANCEL
LOCK
POWER
FUNCTION
8:8 HDMI Matrix Switcher over Twisted Pair
AT-PRO2HD88M

connectivity

ATLONA
Connecting Technology

Atlona is a leading provider of innovative, reliable AV and IT connectivity solutions. Since 2003, Atlona has been designing and engineering award-winning products for a diverse range of residential and commercial applications. www.atlona.com

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CSI Communications Specialties, Inc.

Communications Specialties, Inc. (CSI) is an award-winning, Long Island based company recognised for its expertise in computer-video technology. Headquartered in Hauppauge, New York, CSI designs, manufactures and sells a variety of products for the distribution, conversion or transmission of television and computer video signals, including fibre optic transmission systems, scan converters and video scalers. www.commspecial.com

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ATEN®
Simply Better Connections™

ATEN, established in 1979, is specialised in connectivity and management solutions in accessing and sharing technologies. ATEN consolidates all of its products and services under one brand – ATEN, in order to provide an efficient and consistent service standard. The ATEN brand consists of innovative solutions applied to connectivity, professional audio / video, and green energy, for consumers, small / home offices (SOHO), small to medium sized businesses (SMB), and enterprise customers. www.aten.com

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Other connectivity brands available within True Colours portfolio

Gefen

A leader in the high definition digital domain since 1998, Gefen Inc. Delivers advanced technologies with products using multi-platform formats for extension, switching, distribution and conversion capabilities.

KRAMER

Kramer Electronics is committed to developing creative, reliable and value-oriented audio, video and computer signal processing solutions and distributing them worldwide with an uncompromising level of service and support.

Call the sales team on 01252 876300 for pricing across all our connectivity ranges

connectivity

ATLONA
Connecting Technology

market sectors

Atlona PRO2HD Matrix Switcher Family

Atlona 16 x 16 HDMI to HDBaseT Matrix Switcher
ATL-PRO2HD1616M

Atlona 8 x 8 HDMI to HDBaseT Matrix Switcher
ATL-PRO2HD88M

The PRO2HD matrix switchers offer the largest matrixes of the PRO family, with HDBaseT signal transmission up to 328 feet (100 meters) to eight or sixteen zones. Advanced IR control routing enables simpler system design. Easy-to-pull, field-terminable cable makes installation easier for large and complex spaces. An external redundant power supply means reliable performance every time.

Atlona Advantages

HDBaseT extends HDMI video, multi-channel audio, and control signals up to 328 feet (100 meters)
More control RS-232 and bi-directional IR for third-party-controller compatibility
Redundant power supply in case of power supply failure
Faster, better EDID management with presets loadable to any source in the matrix
Easier installs with easy-to-pull, field-terminable cable
16 or 8 zones for larger residential or commercial AV installations

Additional features

- Locking HDMI and power connectors for reliability
- Simultaneous displays through advanced HDCP key management
- USB port for field firmware updates
- Rack mount ears

Compatible Receivers

ATL-PRO2HDREC -
Required for use with PRO2HD matrix switcher family

- Atlona HDBaseT box HDMI receiver with IR and RS-232
- Pass-through of 1080p or 1920x1200, 3D, 2-channel and multi-channel audio, bi-directional RS-232 and IR signals

ATL-PRO2HDRECDA -
Highly recommended alternative to PRO2HDREC for better, more seamless listening and viewing in home theatres

- Atlona HDBaseT box HDMI receiver with audio de-embedding
- Pass-through of 1080p or 1920x1200, 3D, 2-channel and multi-channel audio, bi-directional RS-232 and IR signals

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Don't forget your cable requirements
View page 96 for Atlona LinkConnect cables

ATLONA
Connecting Technology

Atlona PRO3HD Matrix Switcher Family

Atlona 6 x 6 HDMI to HDBaseT-Lite Matrix Switcher
ATL-PRO3HD66M

Atlona 4 x 4 HDMI to HDBaseT-Lite Matrix Switcher
ATL-PRO3HD44M

The PRO3HD family is Atlona's best value for matrix switchers, with HDBaseT-Lite technology, complete control, and an easier install at the right price point. The PRO3HD for four zones or six zones supports distances up to 230 feet (70 meters) with control of connected devices via TCP/IP, IR and RS-232. With power over category cables (PoCc™) this is the robust, cost-effective choice for medium-sized or more compact residential and commercial AV installations.

Atlona Advantages

HDBaseT-Lite extends HDMI video UltraHD (4Kx2K), multi-channel audio, and control signals up to 230 feet (70 meters)
Complete easy control via TCP/IP, and bi-directional IR and RS-232 routing that's compatible with third-party controllers
Ultimate audio ARC routed to S/PDIF outputs for each channel enables connection to zone amplifiers, and mirrored HDMI outputs get even Dolby TrueHD or DTS-HD Master through an AVR
Faster, better EDID management with presets loadable to any source in the matrix
Easier installs with easy-to-pull, field-terminable cable

Additional features

- Redundant power supply in case of power failure
- Power over Category cable (PoCc™)
- Support for four zones
- Locking HDMI and power connectors for reliability
- Simultaneous displays through advanced HDCP key management
- USB port for field firmware updates

Compatible Receivers

ATL-PRO3HDREC -
Preferred for full functionality
- Atlona HDBaseT-Lite box HDMI receiver with IR and RS-232
- Our PRO3HD receiver offers pass-through of 1080p or 1920x1200, 3D, 2-channel and multi-channel, audio and bi-directional RS-232 and IR signals

ATL-HDRX-IR -
NEW
- Atlona HDBaseT-Lite RX HDMI box with IR
- The value receiver for more compact spaces, with distance up to 230 feet (70 meters)

ATL-HDRX -
New Atlona HDBaseT-Lite RX HDMI box
- The exceptional value receiver for compact spaces that don't need control

Expectations, Exceeded.

Atlona connectivity solutions are developed and engineered for the pros: the ease and simplicity that installers and integrators rely on, with the features that fast-paced businesses and their customers demand.

We innovate switchers, extenders, and distribution amplifiers with longer distance capabilities and more flexible options for control. Our solutions are easier to integrate and operate, so classrooms or campuses, medical, hospitality, or digital signage projects, hit the right price points.

Visit Atlona.com or talk to a True Colours representative

ATLONA
Connecting Technology

Atlona Wireless AV

Atlona EU LinkCast Wireless HD Audio / Video System

ATL-LINKCASTAV-EU *European Version*

Easily connect wirelessly to your HDTV, projector or AV receiver without unsightly cables! The Atlona EU LinkCastAV sends flawless HD video and digital audio wirelessly so you can keep all your equipment out of sight for a clean, neat living room or home theatre. It's the perfect wireless solution for watching movies, viewing pictures, playing games, listening to music, even browsing the Internet from your laptop using your HDTV's big screen.

Not compatible with MAC products

Eliminate messy cables and place electronics out of sight
Connect up to 4* HD-capable audio / video devices wirelessly up to 40 feet (12.19 meters) away to your HDTV or projector without messy cables or unreliable picture quality or reception*. With LinkCast, you can truly experience the freedom of connecting a laptop, Blu-ray player, game console, cable / satellite box or other device wirelessly.

Plug-and-play
The LinkCast Wireless HD System can be set up in minutes. Just plug in and connect the LinkCast AV base station, via the included HDMI cable, to an HDTV or Projector. Then, insert the LinkCast HDMI Transmitter into the HDMI output and USB port on your audio / video device. It's that easy! The LinkCast wireless HD system won't interfere with standard Wi-Fi, phone or other wireless devices in your home.

Full gaming
Tested with PC and console games to ensure no latency —enjoy the best first person shooters, role-playing games, and massive multiplayer wirelessly on a big screen TV with crystal clear picture.

* Amount of transmitters may vary per region

Don't forget your cable requirements
View page 96 for Atlona LinkConnect cables

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Don't forget your cable requirements
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Atlona RSNET, IR and HD Extender Family

HDBaseT TX and RX HDMI Box with Ethernet, RS-232 and IR

ATL-HDTX-RSNET and ATL-HDRX-RSNET

Atlona's most powerful, reliable and versatile transmitters and receivers - RSNET extenders offer HDBaseT™ and Power over Category cable (PoCc™) for distances up to 100 meters. Get more control and compatibility with Ethernet, RS-232 and bi-directional IR for third-party controllers. USB ports allow firmware upgrades in the field to save time and money.

Atlona Advantages

HDBaseT transmits power to the receiver via PoCc for 328 feet (100 meters) of uninterrupted signal
PoCc combines audio, video, bi-directional IR, RS-232, Ethernet and power in a single category cable, so there's no need for a power supply at the receiver
Captive-screw terminations for power and control help reduce wire bundles for cleaner racks and more reliable connections

Additional features

- Supports all embedded audio signals including Dolby TrueHD and DTS-HD Master Audio
- Locking HDMI ports
- Resolutions up to UltraHD (4Kx2K)

Atlona HDBaseT TX and RX DVI Box with Ethernet, RS-232 and IR

ATL-DVITX-RSNET and ATL-DVIRX-RSNET

Our RSNET DVI connectors are designed for applications that use DVI for video and audio. They have the same great features as the RSNET family, such as transmission up to 328 feet (100 meters), bi-directional control and support for Dolby TrueHD® and DTS-HD Master Audio™.

Atlona Advantages

HDBaseT transmits power to the receiver for 328 feet (100 meters) of uninterrupted signal
HDBaseT with power over category cable (PoCc) combines audio, video, bi-directional IR, RS-232, Ethernet and power in a single category cable so there's no need for a power supply at the receiver

Additional features

- Supports all embedded audio signals including Dolby TrueHD and DTS-HD Master Audio
- Locking HDMI ports
- Resolutions up to UltraHD (4Kx2K)

HDMI Extension

ATL-HD4-SI40SR -
Convenience and value with receiver and transmitter in the same box

- High speed HDMI extender kit over category cable with 3D support
- High-speed transmission up to 40 meters; 7 selectable EDID modes plus learning feature, and high speed HDMI for deep colour and full 3D support. Full HD 1080p and uncompressed 7.1 channel digital audio over single category cable. DTS-HD and Dolby TrueHD

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Atlona RSNET, IR and HD Extender Family continued...

HDBaseT-Lite TX and RX HDMI Box with IR
ATL-HDTX-IR and ATL-HDRX-IR

Atlona's powerful, reliable, and versatile transmitters and receivers, the IR extender family features HDBaseT-Lite and Power over Category Cable for 70-meter distance, plus IR control. USB ports allow firmware upgrades in the field to save time and money.

Atlona Advantages

HDBaseT-Lite transmits power to the receiver via PoCc for 230 feet (70 meters) of uninterrupted signal
PoCc combines audio, video and bi-directional IR and power in a single category cable so there's no need for a separate power supply
Smaller form factor, so boxes can be mounted behind a TV or rack with no distracting cables

Additional features
- DTS-HD Master Audio and Dolby TrueHD audio plus 3D pass-through
- Locking HDMI port
- Includes dual purpose wall / rack mount ears
- Compatible with distribution amplifier family

HDBaseT-Lite TX and RX HDMI Box
ATL-HDTX and ATL-HDRX

Atlona's value extenders, with HDBaseT-Lite and PoCc for extension up to 70 meters for spaces that don't require control, USB ports allow firmware upgrades in the field to save time and money.

Atlona Advantages

HDBaseT-Lite transmits power to the receiver via PoCc for 230 feet (70 meters) of uninterrupted signal
PoCc combines audio, video and power in a single category cable so there's no need for a separate power supply
Smaller form factor, so boxes can be mounted behind a TV or rack with no distracting cables

Additional features
- DTS-HD Master Audio and Dolby TrueHD audio pass-through plus 3D pass-through
- Locking HDMI port
- Includes dual purpose wall / rack mount ears
- Compatible with distribution amplifier family

Atlona HDBaseT TX and RX HDMI Rental / Staging Box with etherCON, Ethernet, RS-232 and IR
ATL-HDTX-ROADNET and ATL-HDRX-ROADNET

Our ROADNET extenders are designed specifically for rental and staging events, road shows, and semi- or non-permanent installations, with Neutrik etherCON connectors for HDBaseT link. They have the same great features as the RSNET family, such as transmission up to 328 feet (100 meters), bi-directional control and support for Dolby TrueHD® and DTS-HD Master Audio™.

Atlona Advantages

HDBaseT transmits power to the receiver for 328 feet (100 meters) of uninterrupted signal
HDBaseT with power over category cable (PoCc) combines audio, video, bi-directional IR, RS-232, Ethernet and power in a single category cable so there's no need for a power supply at the receiver
Neutrik etherCON connectors for HDBaseT link for easier installation and more reliable connections

Additional features
- Supports all embedded audio signals including Dolby TrueHD and DTS-HD Master Audio
- Locking HDMI ports
- Resolutions up to UltraHD(4Kx2K)
- Locking power connector on TX box
- Compatible with distribution amplifier family

Technical solutions:

Use Atlona for your HD video distribution requirements from residential to commercial solutions. Atlona products and services enable system designers, integrators, consultants and installers to create scalable, customised solutions that keep their organisations on the cutting-edge of AV, allowing to increase efficiencies whilst exceeding customer expectations. Atlona focuses on delivering products with the innovative features and reliability with 3 year warranties on all products.

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Atlona HDBaseT Distribution Amplifier Family

Our HDMI-over-category-cable family of DAs reaches longer distances while keeping installation and upgrade simple. They have fallback solutions should a power supply or source fail, so they're more reliable. This family includes value models with the same powerful features for more compact spaces.

Atlona 2 x 8 HDMI to HDBaseT Extended Distance Distribution Amplifier
ATL-HDCAT-8ED

Atlona Advantages

Eight-Zone support and extended distance
HDBaseT distributes up to 328 feet (100 meters)
Power over Category cable (PoCc™) eliminates the need for a power supply at the receiver
Auto-switched HDMI inputs change over should one source fail, plus redundant power supply in case of power supply failure
USB port means firmware can be upgraded in the field to save time and money.

Atlona 2 x 8 HDMI to HDBaseT Distribution Amplifier
ATL-HDCAT-8

Atlona Advantages

Eight-Zone support
HDBaseT-Lite distributes up to 230 feet (70 meters)
Power over Category cable (PoCc™) eliminates the need for a power supply at the receiver
Auto-switched HDMI inputs change over should one source fail, plus redundant power supply in case of power supply failure
USB port so firmware can be upgraded in the field to save time and money.

Atlona 2 x 4 HDMI to HDBaseT-Lite Distribution Amplifier
ATL-HDCAT-4

Atlona Advantages

Four-Zone support
HDBaseT-Lite distributes up to 230 feet (70 meters)
Power over Category cable (PoCc™) eliminates the need for a power supply at the receiver
Auto-switched HDMI inputs change over should one source fail, plus redundant power supply in case of power supply failure
USB port so firmware can be upgraded in the field to save time and money

Additional features across the range

- Balanced analogue audio outputs with captive-screw terminations mean easier and more reliable connections and cleaner racks.
- S/PDIF digital audio connection for home theatre systems
- EDID management for compatibility with multiple monitor types
- 3D pass-through, lossy and lossless audio pass-through (up to Dolby TrueHD or DTS-HD Master Audio)

Compatible Extenders

ATL-HDCAT-8ED -
Preferred extenders are ATL-HDTX and ATL-HDRX RSNET boxes; or ATL-HDTX and HDRX ROADNET boxes for rental or staging installations. Reach extended distances up to 100 meters with HDBaseT via PoCc.

Compatible Extenders

ATL-HDCAT-8 and ATL-HDCAT-4 -
Preferred extenders are ATL-HDRX and ATL-HDTX IR boxes with IR control or ATL-HDRX and ATL-HDTX boxes for spaces that don't require control. Value extenders for more compact spaces reach 70 meters with HDBaseT via PoCc.

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Atlona Switchers and Scalers

Atlona 11-Input Switcher / Scaler with Dual Mirrored Outputs
ATL-LINE-PRO5-GEN2

Additional features
- 11 inputs including 4 HDMI, 1 DVI, 2 VGA, 2 component, and 2 composite
- Easier classroom or boardroom presentations, with remote, face panel or RS-232 control
- Scale any source to any display resolution
- Embed DVI audio to HDMI or de-embed audio from any connected device to an amp
- Dual HDMI output so media can be sent to two different displays at once

Atlona 10-Input Switcher / Scaler with Dual Mirrored Outputs
ATL-LINE-PRO4-GEN2

Additional features
- 10 inputs including 4 HDMI or DVI, 3 VGA, 1 S-Video, 1 component and 1 composite can be scaled to a single HDMI output
- IR and RS-232 controls for easier integration with a pre-existing system
- On-screen display to easily view and change audio, scaling and resolution options
- Embed DVI audio to HDMI or de-embed audio from any connected device to an amp
- Analogue or digital 2-channel audio signal pass-through

Atlona 5-Input Switcher / Scaler with Dual Mirrored Outputs
ATL-LINE-PRO2

Additional features
- 5 inputs including 1 VGA, 1 HDMI, 1 composite, 1 S-Video,1 component
- Format-convert and pixel re-scale digital and analogue inputs to easily match a display's native resolution
- Digital audio output for routing audio through an independent audio system
- Convert 50Hz/60H to manually select output; ideal for US TVs in Europe and vice-versa
- Supports PC output up to 1920x1200
- Accurate and independent colour control
- 3D noise reduction
- On-screen OSD menu control and remote control

Atlona 8 x 8 and 4 x 4 HDMI Matrix Switchers

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Atlona's H2H (HDMI-to-HDMI) matrix switchers simplify multi-room distribution and they're easier to upgrade. IR, RS-232, and TCP/IP control options are more compatible with more control systems. Built-in EDID management, customizable EDID learning, and programmable memory presets. Eight or four zones. Pair H2H matrix switchers with TX and RX boxes for extension up to 100 meters.

Visit Atlona.com or talk to a True Colours representative

AT-H2H-88M

Make Living Spaces Come Alive

Hit 'em where they live: people are spending more time enjoying multimedia in more rooms in their homes, so we've made connected digital living spaces easier to design and deliver.

Get wireless with more compatibility, easily extend signals farther, get upgrades done in the field. Atlona offers more solutions for scale, size, and budget, whether the connected home is 200 or 2,000 square meters.

Visit Atlona.com or talk to a True Colours representative

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Atlona Converters and Scalers

Atlona DVI with Analogue / Digital Audio to HDMI Converter and Embedder
ATL-HD610

Additional features
- Silicon image chip-sets for compatibility with nearly all available AV gear
- EDID learning mode aids compatibility
- HDMI and HDCP 2.0 compliant
- Allows embedding of DVI and audio onto a single HDMI line
- Compact size and mounting brackets allow for easy installation
- SPIDF and 3.5mm jack for analogue audio input
- Easily connect a PC to a home theatre setup
- Supports resolutions up to 1080p or 1920x1200

Atlona HDMI Audio De-Embedder with 3D
ATL-HD570

Additional features
- Professional quality HDMI audio de-embedder
- Accepts an HDMI input signal and de-embeds the audio to optical or multi-channel analogue audio outputs
- Supports uncompressed analogue LPCM 7.1, 5.1, 2-channel through multi-channel analogue outputs with Dolby Digital, LPCM 2CH and DTS output through optical connection
- Supports HDMI signal amplification and equalization with re-clocking function
- Supports digital video formats in Deep Colour Mode from 25MHz to 6.75GHz for 36 bits
- Integrated HDMI booster and repeater

Atlona DVI Up / Down Scaler / Converter
ATL-DVI550

Additional features
- Compact design
- Plug and play
- Manual tuning for quick adjustments
- HDCP 1.1 and DVI 1.0 compliant
- Supports up to 36-bit deep colour
- Supported resolutions include 480@60, 720@60, 1080@60, and other resolutions up to 1920x1200
- Interlace-to-progressive conversion

Atlona PC to HDMI Scaler / Converter
ATL-HD500

Additional features
- The ATL-HD500 is capable of accepting all PC resolutions up to 1920x1200 and is also capable of scaling from 1080p to 1920x1200
- Allows adjustment of contrast, brightness, hue, saturation, sharpness, RGB (colour balance) and aspect ratio size
- Supports high resolution output: PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA SD/HD: 480i, 576i, 480p, 576p, 720p,1080i and 1080p (30/50/60)
- Supports analogue stereo and digital audio (optical) then outputs the audio to HDMI, TOSLink and mini stereo jack simultaneously

Atlona Composite Video(BNC) + Stereo Audio to HDMI Scaler / Converter ATL-HD120

Additional features
- Converts composite video and stereo audio to HDMI
- Receives low resolution signals (such as 600x800 or 480i) and upscale to 1600x1200 or 1080p to allow HD video
- Compatible with NTSC and PAL video formats

connectivity

market sectors

Fiberlink® Fibre Optic Transmission Systems

Fiberlink is the industry's largest selection of fibre optic transmission products for use in the most demanding of broadcast and professional video applications. Designed and engineered by broadcast engineers for broadcast and video engineers, Fiberlink delivers robust performance without breaking the budget. Best of all, the Fiberlink family of products is expansive: from optical matrix switching to optical distribution, 3G-SDI to component video, from composite video to RGB, from audio to data and beyond, Fiberlink is certain to deliver a robust solution without breaking the budget.

3360 Range
The Fiberlink 3360 Series allows you to transmit 3G, HD or SD-SDI as per SMPTE 424M-2006, 292 and 259 with the ability to embed up to 8 channels (4 pairs) of AES/EBU digital audio. Convenient switches on the 3360 Series transmitter allow the operator to embed each of the four pairs of audio independently, to strip previously serialised audio, or to pass it through without modification. At the receiving end of the fibre optic link, the operator can decide which audio pairs they need de-embedded.

7220 Range
The Fiberlink 7220 Series digitally transmits high-resolution RGB (up to WXGA) and stereo audio over one single mode or multi-mode fibre optic core at 1310nm wavelength. Ideal for point-to-point, point-to-multipoint and drop-and-repeat applications, it supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768) and HDTV resolutions of 480p, 720p, and 1080i (RGBHV format only).

7250 Range
The Fiberlink 7250 Series digitally transmits high resolution RGB (up to WUXGA) and stereo audio using two single mode or multi-mode fibre optic cores at 1310nm wavelength. The system supports VGA, SVGA, XGA, WXGA, SXGA, SXGA+, UXGA and WUXGA (640 x 480 up to 1920 x 1200) and HDTV resolutions of 480p, 720p, 1080i and 1080p (RGBHV format only).

3G/HD/SD-SDI with AES/EBU Digital Audio Embedding and De-Embedding over Fibre

Meet the Fiberlink® 3360 Series

NEW

FIBERLINK® VIDEO, AUDIO & DATA OVER FIBER

Learn more: +1-631-273-0404
commspecial.com/3360

The Fiberlink 3360 Series allows you to transmit 3G, HD or SD-SDI as per SMPTE 424M-2006, 292 and 259 with the ability to embed up to 8 channels (4 pairs) of AES/EBU digital audio.

Convenient switches on the 3360 Series transmitter allow the operator to embed each of the four pairs of audio independently, to strip previously serialized audio, or to pass it through without modification.

At the receive end of the fibre optic link, the operator can decide which audio pairs they need de-embedded.

CSI Communications Specialties, Inc.

3360 Range:

Features and benefits:

- Inserts up to 8 channels (4 pairs) of AES/EBU digital audio
- Automatic Sample Rate Conversion (SRC) of audio inputs
- 75 Ohm, unbalanced BNC audio interface per AES3id and SMPTE 276M
- Transmitter can pass existing embedded audio or insert audio on a pair by pair basis
- Compatible with Fiberlink 3360 for conversion between digital and analogue audio
- Signal is equalised and re-clocked prior to fibre optic transmission
- Receiver features a re-clocked SDI output
- Designed for fibre optic interoperability with other SMPTE 297-2006 fibre optic compliant devices up to 2.97Gbps
- Immunity to pathological patterns over entire link budget and operating temperature range
- Compliant with SMPTE 259M-2006, 292-2006, 242M-2006, 297-2006, 276M
- Supports both single mode and multi-mode (62.5u and 50u) fibre types
- Supports 3G / HD / SD-SDI inputs with or without embedded audio and data
- Available in box and card versions

7220 Range:

Features and benefits:

- Digitally transmits high-resolution RGB (up to WXGA) and stereo audio over one single mode or multi-mode fibre optic core
- Supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768)
- Supports HDTV resolutions of 480p, 720p and 1080i (RGBHV format only)
- Uses all digital processing with no compression for crystal clear signals and no colour pixel skewing
- Requires no adjustments, equalisation or de-skewing during installation
- Transmits signals over one single mode or multi-mode fibre optic core at 1310nm wavelength
- Low audio / video skew, <300 uSec
- Use with Fiberlink 8000 and 8100
- Series optical DAs for complex point-to-multipoint distribution
- RoHS compliant

7220/7221

Features and benefits:

- Complete kit available for a point-to-point ready to install solution
- Includes transmitter, receiver, power supplies, 250 meters of fibre and various audio and VGA cables
- Box and card units available
- Card versions fill one slot in 6000A card cage

7250 Range:

Features and benefits:

- Transmits VGA, SVGA, XGA, WXGA,SXGA, SXGA+, UXGA and WUXGA (640 x 480 up to 1920 x 1200)
- Supports HDTV resolutions of 480p, 720p, 1080i and 1080p (RGBHV format only)
- Uses all digital processing with no compression for crystal clear signals and no colour pixel skewing
- Requires no adjustments, equalisation or de-skewing during installation
- Transmits signals over two single mode or multi-mode fibre optic cores at 1310nm wavelength
- Low audio / video skew, <300 uSec
- Small, lightweight, uses low power
- Complete kit available for a ready to install solution
- Includes transmitter, receiver, power supplies, 250 meters of duplex fibre and various audio and VGA cables
- Unique feature allows the two fibres to be cross connected without affecting operation!
- Fibre cables can be up to 20 meters different in length!
- RoHS compliant

Technical solutions:

Fibre transmission gives the ability to transmit more information over longer distances. Fibre optic cable offers almost unlimited bandwidth and supports much higher data rates than traditional copper solutions. Fibre optic cable is immune to virtually all kinds of interference and will not create ground loops. It is smaller, making it lighter and is ideal for secure communication. Today's fibre transmission topologies allow for point to point, point to multipoint, Optical Matrix Switching, one-way and two-way systems. Perfect solution for Universities, Stadiums, Hospitals, OB Trucks and Military. Fiberlink support most video, audio and data formats.

connectivity

ATEN
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market sectors

ATEN, established in 1979, is specialised in connectivity and management solutions in accessing and sharing technologies. ATEN consolidates all of its products and services under one brand – ATEN, in order to provide an efficient and consistent service standard. The ATEN brand consists of innovative solutions applied to connectivity, professional audio / video, and green energy, for consumers, Small / Home Offices (SOHO), Small to Medium-sized Businesses (SMB), and enterprise customers.

Work+Fun? All-in-One!
ATEN
Control 2 DVI Computers and 2 HDMI Computers/Devices from One Dual Display console
Dual Display Console
Supports one DVI display and one HDMI display-view the output of (up to) four high-definition video sources
Picture-in-picture(PIP) 3n1 view mode
Allows you to monitor up to four computers simultaneously. Ideal for desktop multimedia applications
File Management
Intuitive GUI provides easy monitoring, file transfer, copy and paste and other innovative desktop control features
Patented cursor shift function in dual display mode
Cursor Shift Function-when you are using two displays, the mouse cursor can move back and forth across the displays, shifting the KVM focus
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KVM Switches

4-port USB DVI-D KVMP Control Centre CM1164

The CM1164 4-port USB DVI-D KVMP Control Centre charts a revolutionary new direction in KVM switch functionality by combining a 4-port DVI-D switch with a 2-port USB hub, and providing the following display modes: Quad View mode, which simultaneously displays four digital computers / video sources on a single screen; as well as Picture-in-Picture mode (Dual, Triple or Quad) and Full Screen mode to meet the demands.

Features and benefits:

- One USB console independently and simultaneously controls four DVI-D computers and two additional USB devices
- Multi-view console controls up to 4 video sources on one screen
- Function control via OSD menu – display mode, port selection, daisy chain and so on
- DCC (Daisy Chain Control) port enables users to connect up to four CM1164 units and use one console keyboard / mouse to manage computers or another CM1164
- 2-port USB 2.0 hub built-in, fully compliant with USB 2.0 specification
- Computer selection via front panel push buttons, hotkeys, IR remote control and OSD (with mouse* function enabled)
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Multiplatform support – Windows, Linux, Mac and Sun
- Superior video quality – up to 1920 x 1200 resolution
- Full bass response provides a rich experience for 2.1 channel audio
- Mac/Sun keyboard support and emulation**

* For 3-key USB wheel mouse only
** PC keyboard combinations emulate Mac/Sun keyboards
** Mac/Sun keyboards only work with their own computers

LCD KVM Switches

DVI LCD Console CL6700N

Features and benefits:

- Integrated KVM console with a 19" DVI LCD monitor in a single rail housing with top and bottom clearance for smooth operation in a 1U high system rack
- Standard rack mount kit included – optional Easy Rack Mounting (single person installation) rack mount kit available (requires separate purchase)
- Supports an external console with USB / DVI / VGA connectors
- Additional hot-pluggable USB mouse port on front panel (also functions as USB peripheral port)
- Audio support (speakers)
- Superior video quality – up to 1280 x 1024 @75 Hz; DDC, DDC2, DDC2B
- Standard 105-key keyboard; Sun keyboard emulation
- Multiplatform support – Windows, Linux, Mac, and Sun
- Compatible with most ATEN DVI KVM Switches
- Adjustable depth to fit within the rack
- Firmware upgradeable
- Console lock - enables the console drawer to remain securely locked away in position when not in use
- DDC emulation - video settings of each computer are automatically adjusted for optimal output to the monitor

Video Matrix Switcher

8x8 HDMI Matrix Switcher VM0808H

The ATEN VanCryst™ VM0808H 8x8 HDMI Matrix Switch is a distinct HDMI solution that offers an easy and affordable way to route any of 8 HDMI video sources to any of 8 HDMI displays, and view them in any arrangement.

Features and benefits:

- Connects any of 8 HDMI sources to any of 8 HDMI displays
- Long distance transmission – supports up to 20 meters (24 AWG)
- HDMI (3D, deep colour) and HDCP compatible
- Easily switch between multiple sources and multiple displays
- Remote operation:
  - Browser Graphical User Interface (GUI)
- Superior video quality – HDTV resolution of 480p, 720p, 1080i, and 1080p (1920 x 1080), VGA, SVGA, SXGA, UXGA and WUXGA (1920 x 1200)
- Supports Dolby True HD and DTS HD Master audio
- Signalling rates up to 2.25 Gbits in support of 1080p display
- Feature EDID Expert technology to set up different configurations via different EDID modes
- Power on detection – if an HDMI sources is powered off, the VM0808H can automatically switch to the next powered-on source
- Rack mountable

connectivity

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USB Dual View KVM Extender CE774 / 775

ATEN CE774 / CE775 dual view KVM extenders allows access to a computer system from a remote dual view console up to 150 meters away.

Features and benefits:

- Dual view support - connect two screens to transmit two video output signals to a remote site up to 150 meters away using inexpensive Cat 5e/6 cables
- Dual console operation - control your system from both the local and remote USB keyboard, monitor, and mouse consoles
- PC wakeup support - from the remote console, simply use a pushbutton to wake a computer at the local site via RS-232
- Superior video quality – 1920x1200@60Hz(30m),1600x1200@60Hz(150m)
- Gain / compensation control – adjusts signal strength in order to compensate for distance
- RS-232 channel – allow you to connect to a serial terminal, or serial devices such as touchscreens and barcode scanners
- CE755 has all the above features as well as auto de-skew and extends 1280x1024@60Hz(300m)

DVI KVM Extender CE600 / 602

The CE600 / 602 is a DVI and USB based KVM extender with RS-232 serial functionality. It allows access to a computer system from a remote console (USB keyboard, monitor and mouse).

Features and benefits:

- Local and remote units connect at distances up to 60 meters using Cat 5e cable
- Allows access to a computer or KVM installation from a remote console (up to 60 meters)
- Features ATEN technology that allows A/V transmission over a Cat 5e cable
- The 2nd Cat 5e cable is used for HDCP, RS-232, and microphone signals
- Manual compensation control to adjust signal strength in order to compensate for distance
- RS-232 serial ports – connect to a serial terminal, or serial devices such as touchscreens and barcode scanners (Baud Rate 115200 bps)
- Superior video quality of up to 1920x1200@60Hz(30m), 1024x768@60Hz(60m)
- CE602 has all the same features as well as dual link DVI distribution

HDMI Extender over Single CAT5 with Dual Display VE814

ATEN's latest offering delivers high quality videos in dual displays over distance. With VE814 HDMI Extender, your HDMI displays can be located up to 100 meters away from the HDMI source device.

Features and benefits:

- Extends the distance between HDMI source and HDMI display
- Implements HDBaseT extension technology using only one Cat 5 cable to connect the transmitter and receiver
- Supports two IR channels for bi-directional IR signal transmission
- HDMI (3D, deep colour, 4kx2k)
- HDCP compatible
- Long distance transmission – up to 100 meters
- Supports resolutions of up to Ultra HD 4kx2k and 1080p Full HD
- EDID Expert – selects the optimum EDID settings for smooth power-up and highest quality display
- RS-232 Serial Port for serial device peripherals, such as touch screens, bar coders scanners, and so on

Mini CAT5 A/V / DVI Extenders VE022 / VE066

The VE022 Mini Cat 5 A/V Extender allows you to extend the distance between your video / audio source and display devices by as much as 150 meters, using a Cat 5e cable.

The VE066 Mini Cat 5 DVI Extender allows you to increase the distance between your DVI display and DVI source by up to 20 meters using only one Cat 5e or Cat 6 cable.

VE022 features and benefits:

- Uses Cat 5e cable to extend audio and video transmission up to 150 meters
- Superior video quality – screen resolutions include 1920 x 1200@60Hz(30m), 1600 x 1200@60Hz(100m) and 1280 x 1024@60Hz(150m)
- Adjustable gain control lets you manually adjust signal strength to compensate for distance
- Eliminates the need for bulky VGA cables

VE066 features and benefits:

- Extends the distance between DVI source and DVI display
- Uses Cat 5e cable to connect the transmitter and receiver units
- Long distance transmission - up to 20 meters*
- HDCP 1.1 compliant
- Superior video quality - up to 1920 x 1200
- Compatible with all ATEN DVI switches and DVI splitters

* Using different source devices / display devices will result in varying results. For best results, we recommend using high quality cables

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Flexible Integrated AV Solutions for Any Application

HDMI Media Distribution Solution (HDMI MDS)

- 4/8-Port HDMI Over Cat 5 Splitter
  (Model: VS1804T/VS1808T)

Receiving Devices

- HDMI Over Cat 5 Repeater
  (Model: VB802)

- HDMI Receiver
  (Model: VE800R)

- One single source to multiple displays
- Transmission distance – up to 300 m (cascadable to 5 levels)
- Superior video quality – up to 1080p
- EDID Mode Selection
- Serial RS-232 control Support

- VGA solution also available – Advanced MDS and Standard Plus MDS

Media Matrix Solution (MMS)

- 16x16 Cat 5 A/V Matrix Switch
  (Model: VM1616T)

Compatible Transmitters / Receivers

- Model: VE500T/R/RQ

- Model: VE300T/R/RQ

- Multiple sources to multiple displays
- Transmission distance – up to 300 m
- ATEN's patented Deskew technology (VE300RQ/500RQ)
- Superior video quality – 1920x1200@50Hz
- Browser-based GUI for remote control

- 8x8 Matrix Switch (VM0808T) also available

Classrooms, lecture theater overflow rooms

Broadcasting information to public locations

In-store, POS, tradeshow digital signage

Meeting rooms, seminars, company training facilities

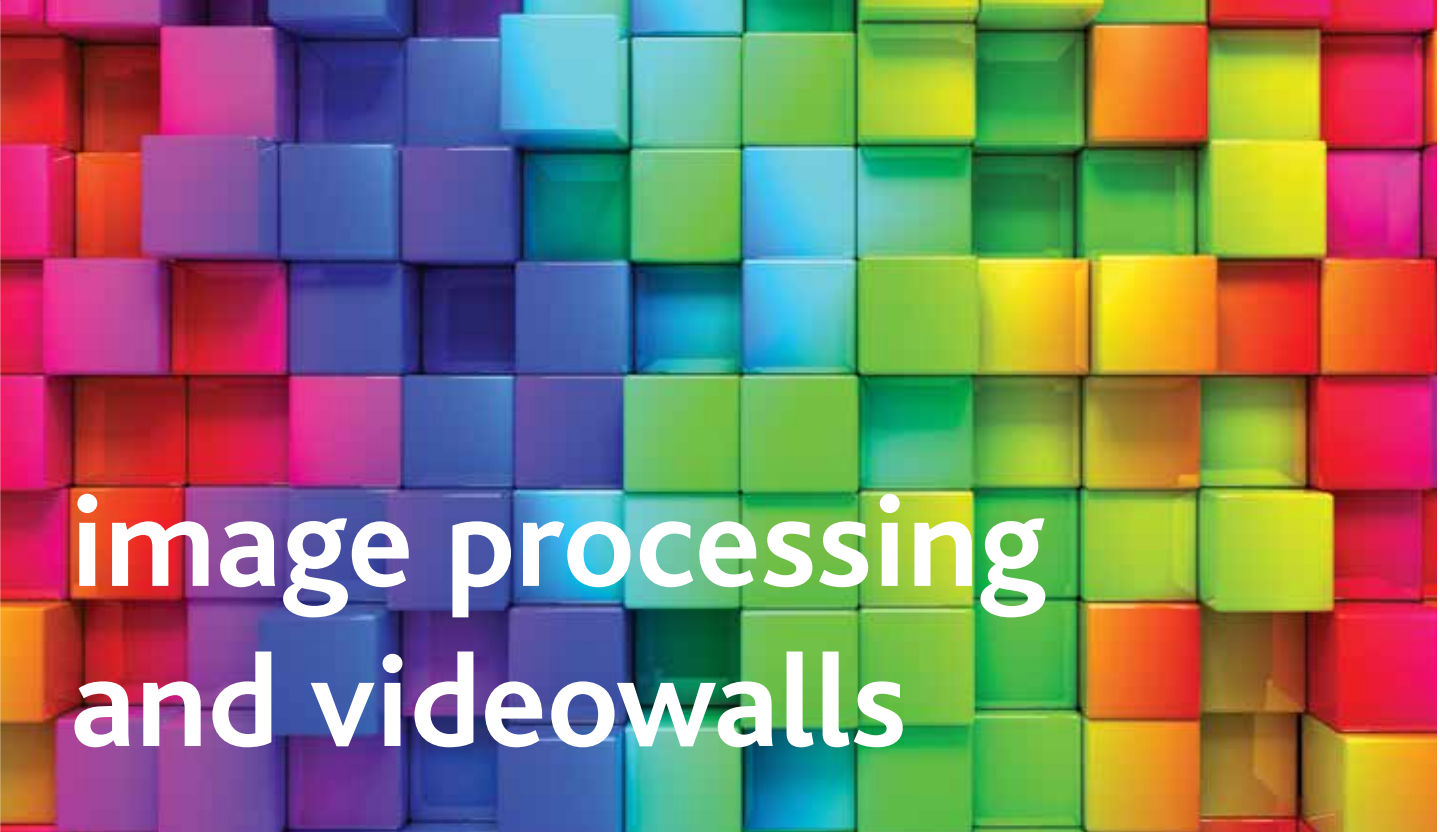


image processing and videowalls

DEXON Systems is developer and manufacturer of the DEXON multi-screen graphics and videowall controllers for Microsoft Windows and Linux X Window platforms. The network-based systems provide complete solution for all the graphics, video and RGB visualisation needs in control room applications. Installations worldwide prove the outstanding performance and quality of videowall controllers from DEXON Systems. www.dexonsystems.com **50**

Whatever your needs are, NEC Display Solutions has the right product. No other vendor today can offer such a comprehensive and solution oriented portfolio as NEC Display Solutions has today. NEC Display Solutions brings together experts in the industry and offers a single point of contact to provide total display solutions for a variety of vertical markets. www.nec-display-solutions.com **54**

Samsung professional displays make it easy for your customers to get their message across in a big way. Where there is a digital signage challenge, there is a Samsung solution. Samsung leads the industry with exclusive technology, making communications clear and easy. Whether within a shopping mall, restaurant, train station, airport or boardroom, Samsung is the ideal digital signage solution provider. www.samsung.com/uk **55**

Wings AV is a network-based multidisplay system that allows components like Wings Vioso, Wings Touch, IOboxes and the Avio Service to communicate with each other as equal network nodes. europe.avstumpfl.com/en/products/wingsav **56**

The C3-540 CORIO®master offers a new, more efficient approach to building video systems. Using TV One's latest CORIO® 3 technology, it gives the user access to new levels of video processing power to achieve new heights of creative and dynamic video displays. www.tvone.co.uk **58**

Analog Way is an innovation-driven designer and manufacturer, specialised in computer and video signal processing and distribution. Since 1989, Analog Way develops and manufactures a wide range of equipment dedicated to Professional Audio Visual applications. www.analogway.com **62**

With over 23 years experience in the Electronics industry, Calibre is highly respected World-wide as a specialist manufacturer of image processing products, specialist scalers, flat panel displays, flat panel display electronics, and I2C-Bus comms adapters and software. www.calibreuk.com **64**

image processing and videowalls

DEXON Systems
Visual quality innovation

market sectors

DEXON Image Processors

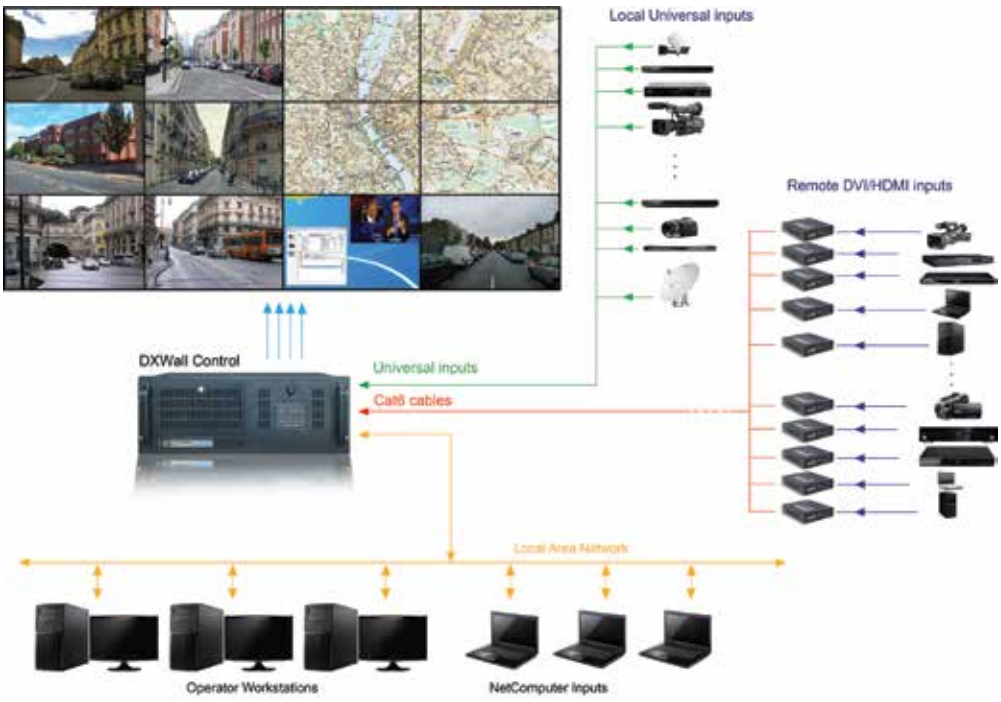
Founded in 1990, DEXON started selling video processors worldwide in 1996, offering the market a whole new product which is completely customised for every system integration. DEXON started developing its multi-screen, multi-image graphic controllers for the command and control environment but now the product has been developed over the years into what we have today. Current environments DEXON are working in include Education, MOD, Command and Control, Conference, Theatres, Public Sector and many more. DEXON systems have thousands of working multi-image display walls and control rooms all over the world today.

DEXON 4000 Series Multi Image Processor

DEXON Systems' new DXN-4000 video wall controllers offer perfect solution for any multi-display visualisation project on Microsoft Windows 7 platform. The LAN-based units control the wall of multiple screens displaying Microsoft Windows compatible graphics and Universal Input overlay windows. The output and the Universal Input connections are handled by revolutionary new, direct Cat6 technology. The Cat5e or Cat6 cable based transmission gives unprecedented chance for the system integrator to install reliable and clean AV solutions where the distance of input peripherals and output monitors is not an issue any more. The DXN-4000 controllers apply multiple Express Crossbars for the full digital display of digital and analogue input sources in real time. The easy-to-use DEXON controllers are characterised by superior design, excellent price / performance balance and high reliability.

Features and benefits:

- Integrated DXN-4000 controllers driving multiple local or remote monitors to form one large Microsoft Windows compatible desktop
- Real time display of 4 – 32 local or remote express universal inputs of HDMI, DVI, RGB, YPbPr, S-video or composite video signal
- Display of HD-SDI, 3GSDI, DisplayPort inputs remote monitors and remote universal inputs handled by single cable Cat5e or Cat6 technology up to 125 meters
- Professional input signal processing and scaling by adaptive de-interlacing, 3D adaptive comb filtering and adaptive 3D noise reduction
- Comprehensive DXWall software system with easy-to-use tools for wall management, video input handling and remote control
- Advanced tools for networked, remote operators to interact



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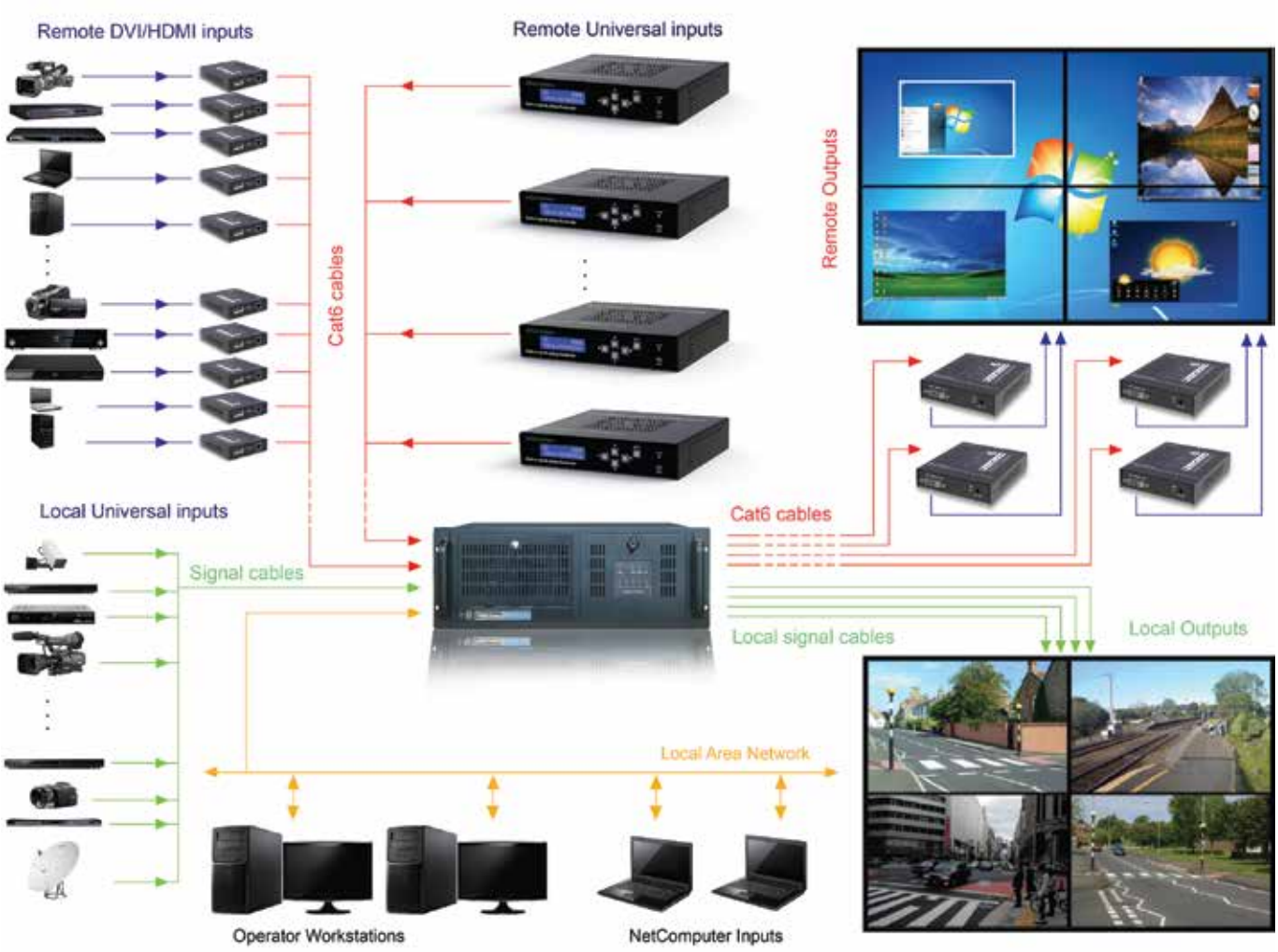
DXN-44CAT00 Video Wall Server Family

DEXON Systems
Visual quality innovation



DXN-44CAT00 Controllers with Direct CAT6 Output

The DEXON DXN-44CAT00 controllers are multi-screen graphics servers working in Microsoft Windows platforms and networks. The DXN-44CAT00 videowall servers drive multiple monitors or cubes to form one large logical screen called videowall. The wall's total resolution means sum of the screen resolutions used. The wall displays Microsoft Windows compatible, multi-screen, graphics desktop and graphics application windows. In addition to the standard graphics windows, the DXWall server displays DVI / HDMI digital, RGB analogue and video overlay windows. The live video windows capture and visualise full motion video from multiple PAL, NTSC, SECAM or component video sources. The Universal input windows display the input sources in real time.

Thanks to PCI Express bus and Express Crossbar technology applied the graphics, live video and Universal Input windows are displayed in full digital form. Windows can cover multiple screens as the windows can cross the borders of monitors. The DXWall controllers display multiple input sources per output screen simultaneously. Highly optimised graphics functions, quick window positioning, unlimited zooming, automatic cursor and input handling give unprecedented freedom to control the wall area.

Features and benefits:

- Control of multiple screens to form one large Windows desktop
- Handling of different resolution output devices with arbitrary mapping of screens over the virtual desktop area
- Display of standard Windows graphics applications
- Full HDCP compatible output signals through local DVI/HDMI or remote Cat6 based DVI / HDMI connector
- Full HDCP compatibility for input signals
- Display of Express Universal Input signals in real time overlay where each input can process and visualise:
  - Digital DVI or HDMI signals with HDCP
  - Analogue RGBHV
  - Component video (YPbPr)
  - S-video
  - Composite video standard signals
- Display of SDI, HD-SDI or 3GSDI signal information

image processing and videowalls

DEXON Systems
Visual quality innovation

Key Success Areas

DEXON Systems has been placed in an array of different areas proving success in the following installations:

- Transport management
- Logistics planning
- Security control
- Education
- Retail
- Exploration
- Public services
- Government
- Defence
- Financial services
- Product launch

DXN-4100

DEXON's DXN-4100 controllers are multi-screen graphics servers working on Microsoft Windows XP or 7 platforms and networks.

The DXN-4100 videowall servers drive multiple screens to form one large videowall. The wall renders Microsoft Windows graphics desktop and overlay windows of universal inputs displaying DVI, HDMI, RGB, component video, HD-SDI, S-Video or composite video input signals in real time.

DXN-4100 controller family applies multiple Express Crossbars for full digital display of digital and analogue input information. Graphics, live video and DVI / HDMI / RGB windows can cover multiple screens as the windows can cross the borders of monitors. Highly optimised graphics functions, quick window positioning, unlimited zooming, automatic cursor and input handling give unprecedented freedom to control the wall area.

DXN-4200

DEXON's DXN-4200/42CAT00 controllers offer the perfect solution for any videowall or control room visualisation requirement on Microsoft Windows platform. The LAN-based unit controls the wall of multiple screens displaying Windows compatible graphics combined with live video input overlays.

The DXN-4200 / 42CAT00 controllers apply advanced Express Crossbar technology for the full digital display of digital and analogue input sources in real time. The easy-to-use DEXON controllers are characterised by superior design, excellent price / performance balance and high reliability. Thousands of controllers operating all over the world for years have proven high MTBF of the products

DXN-4400

DEXON Systems' new DXN-4400 video wall controllers offer perfect solution for any multi-display visualisation project on Microsoft Windows 7 platform. The LAN-based units control the wall of multiple screens displaying Microsoft Windows compatible graphics and universal input overlay windows. The outputs and the universal input connections are handled by revolutionary new, direct Cat6 technology. The Cat5e or Cat6 cable based transmission gives unprecedented chance for the system integrator to install reliable and clean AV solutions where the distance of input peripherals and output monitors is not an issue any more.

The DXN-4400 controllers apply multiple Express Crossbars for the full digital display of digital and analogue input sources in real time. The easy-to-use DEXON controllers are characterised by superior design, excellent price/ performance balance and high reliability.

Features and benefits:

- Integrated DXN-4000 controllers driving multiple local or remote monitors to form one large Microsoft Windows compatible desktop
- Real time display of 4 – 32 local or remote Express Universal Inputs of HDMI, DVI, RGB, YPbPr, S-video or composite video signal
- Display of HD-SDI, 3GSDI, DisplayPort inputs
- Remote monitors and remote universal inputs handled by single cable Cat5e or Cat6 technology up to 100 meters
- Professional input signal processing and scaling by adaptive de-interlacing, 3D adaptive comb filtering and adaptive 3D noise reduction
- Comprehensive DXWall software system with easy-to-use tools for wall management, video input handling and remote control
- Advanced tools for networked, remote operators to interact

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DXN-4600 / 4800

DEXON's DXN-4600 / 4800 controllers offer perfect solution for any videowall or control room visualisation requirement on Microsoft Windows platform. The LAN-based unit controls the wall of multiple screens displaying Windows compatible graphics combined with live video and IP streaming input overlays.

Features and benefits:

- Integrated DXN-4600 controllers for large walls with general video display demand
- DXN-4800 controllers for smaller walls high-end video visualisation
- Total resolution of the wall is the sum of screen resolutions
- Picture-in-picture visualisation of input sources in real time
- Handling of 4 – 32 Express Universal Inputs up to 1920x1200 resolution
- Handling and display of Cat6 based HDMI, SDI, DisplayPort input signals
- Display of IP cameras with MPEG-2, MPEG-4, H.264, MJPEG standards
- Advanced tools for networked remote operators to interact and control video visualisation
- Full Windows XP / Vista / 7 compatibility
- Latest Intel XEON processor and PCI Express bus based customised configurations
- Cost effective, industry standard components and interfaces
- Housed in a 19" rack mount chassis
- High overall system MTBF

DXN-DUS / DUSE

DEXON Systems offer high quality universal scaling™ switchers for demanding AV projects. The standalone scalers accept different format of input signals, switch and scale them to the required output resolution through standard DVI / HDMI connector. All current industrial standards and signal formats are supported by the unit on the universal input and the DVI / HDMI output side.

The format and frame rate conversion make the product an essential part of AV projects where different signals are used to form one coherent solution. Professional input signal processing and scaling provide the highest quality and crystal clear video picture on the output without loss of frames. Easy-to-use configuration can be performed by front LCD panel and push button driven menu items.

Features and benefits:
The Universal Scaler is an all-in-one solution provided by a standalone box of the following features:

- Supports all currently used input signal and connector standards as composite video, S-video, component video (YPbPr), analogue RGB (VGA), digital DVI, digital HDMI with HDCP, DisplayPort and 3GSDI
- Professional input signal processing and quality improvement services as pixel motion adaptive de-interlacing, 3D adaptive comb-filtering and adaptive 3D noise reduction
- High quality up or down scaling
- Switching of input signals to the DVI / HDMI output
- Providing the highest quality crystal clear video picture on the output in real time

DXN-DCAT

DEXON Systems offer high quality Cat6 sender-receiver pair for HDMI signal transmission over long distances. The product provides full HDCP compliant signal transmission and EDID management over a singe cable offering simple cabling and clear installation. The devices can cover 125m distance ensuring crystal clear video picture thanks to the full digital path between the sender and receiver equipment

Features and benefits:
The Cat6 cable based transceiver and receiver pair provides the perfect solution for long distance signal transmission and content protection jobs:

- Transmits HDCP compliant DVI/HDMI signals over a single Cat5e, Cat6 or Cat6a cable up to 125 meter distance
- Ensures perfect EDID signal path
- Supports high resolution transmission up to 1920x1200 pixels resolution at 60Hz
- Results perfect crystal clear video picture quality by the digital data path

Technical solutions:

DEXON Systems boast a wide compatibility specification allowing for the processor to be installed as part of a bigger system. With standard control protocol it works seamlessly with control solutions from all of the control systems manufactures including AMX, and unique features allowing for direct decode of IP streams from a large number of CCTV and IPTV manufactures. With all of these features it makes DEXON image processors a very simple but powerful processing tool for a wide range of applications.

image processing and videowalls

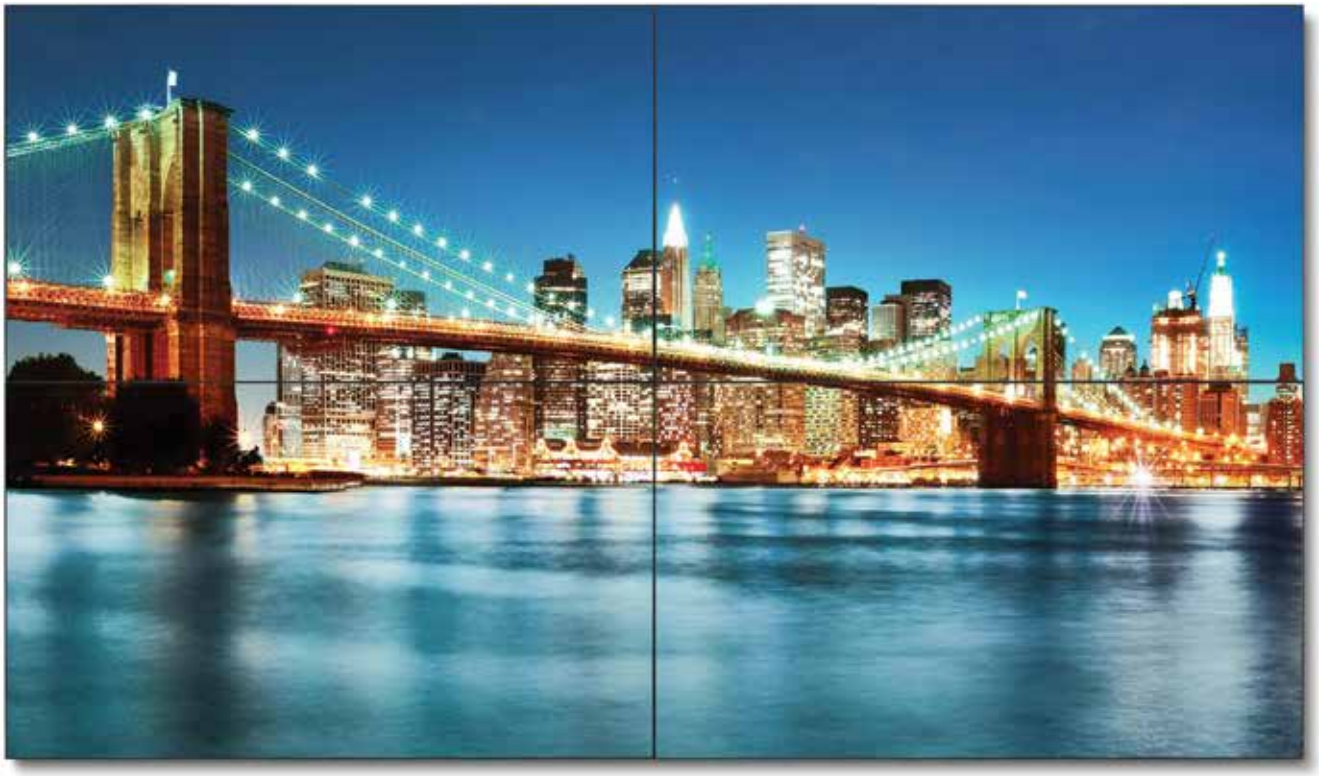
NEC

market sectors

Empowered by innovation

Spectacular videowalls work better where the image is clearer and larger and is not obstructed by unsightly bezels.

The latest entries in the X UN Series, the NEC MultiSync® X551UN displays, can be built into a wall of up to 83m^2 with virtually invisible bezels as small as 5.7mm content to content. The X UN series are loaded with features that make simple, instant calibration and heat management, LAN servicing, easy mounting and alignment and much more, a reality.



46 to 55-inch Professional Videowall Displays

NECLCDX463UN and NECLCDX551UN

With LED backlights and Full HD resolution these displays are ideal for easy installs within the hire and rental market. These NEC displays are the ideal solutions for retail signage as well as control room applications, installations in airports, train stations and the rental market.

Features and benefits:

- Slim bezel design
- HDMI connectivity
- Energy saving properties
- LED backlit technology (55-inch only)

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market sectors

SAMSUNG

Grab Attention with Videowalls

- Create awesome videowalls with super narrow bezels
- Automatic screen adjustments - saving you time and money
- Intense illumination enhances viewing experience
- Easily link your TV, monitor or PC for an extra display

UD and UE Powerful LED Large Format Displays

SMUE46 / SMUE55 and SMUD46 / SMUD55

UD series

The Samsung UD Series is the powerful Direct LED LFD for your customer's videowall requirements. With a super narrow bezel-to-bezel measurement of just 5.5mm, the UD Series removes any distractions from your messages.

UE series

Designed to deliver the largest image display area possible, the UE Series features an ultra-narrow bezel which helps viewers to concentrate on what is on the screen. If one screen just isn't enough, the UE Series can be easily configured for multiple displays to create a high-impact, stunning videowall display system.

Things to consider when purchasing a videowall

Will you be displaying more than one image on your videowall?

DEXON and TV One have multi-image processors which can help you with your image processing needs for multiple images on multiple screens.

What is the distance from the processor to the videowall, how many inputs and outputs are required?

True Colours has multiple CAT5 solutions to help complete your videowall needs.

How will you transmit your image to your videowall?

True Colours can help assist you with your connectivity and cabling requirements to make your videowall a complete solution.

Where are you taking the content from for your videowall?

Will you be using live feeds from security cameras? Have you considered MidwichSecurity for your IP Cameras? Exterity can assist you with your live feeds from your cameras through to your image processor.

How will you be controlling your videowall?

True Colours has multiple products to supply you with your controlling requirements.

image processing and videowalls

market sectors

wings platinum®

Wings AV

Wings have been operating in the market for more than 15 years. It started as a control system for multi-image shows with slide projectors and, over the years, has developed into one of the most powerful tools for large-scale projections – always focusing on intuitive operation and highest output quality.

Even very early on, external devices could not be controlled bi-directionally. This was the first step towards interactivity. The hard- and software combination of the new Wings AV does not only allow integration of additional components but offers the opportunity to use virtually any type of input device for control purposes – via the new interface called Avio.

Be inspired by these new features and use Wings AV for every complex show. You just need one system – from video cutting to audio editing and from large-scale projection to show control – to put your ideas into practice.

Wings AV have the right tool to realise your visions: **Just add creativity!**

wings vioso W **The multi-display software**

wings engine E **High-performance media server**

wings touch T **Software for creating touch interfaces**

wings iobox iO **Hardware modules as interfaces for various signals**

wings avio A **One protocol as infrastructure for all signals and values**

AV Stumpfl Vario curved projection screen

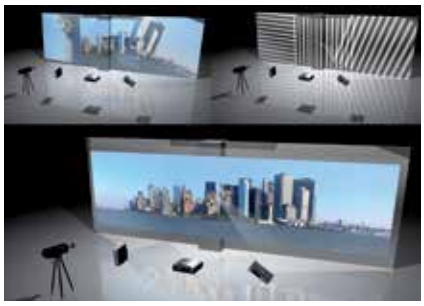
wings vioso W

Multidisplay software to produce and playback simple presentations as well as complex shows

(Pre-) Production

Discover the features which help you to prepare your show perfectly by arranging and editing all different kinds of media formats completely free in your timeline.

- Editing
- Real-time effects
- Various media formats
- Picture sequences



Setup

Discover the features which help you to setup your show perfectly – no matter if you do this manually or by using the camera based calibration of your surface.

- Automatic edge blending and warping
- Flexibility

Control and Connection

Discover the features which help you to control Wings Vioso from an external device or to manage almost every show control signal.

- Interactivity
- DMX recording and playback
- External show control

Get Your Show Started

Discover the features which help you to get broad access to your running show.

- Live player
- Live video

wings engine E

High-end server designed with optimised hardware to playback high resolution and demanding content.

- Wings Engine play and install
- Wings Engine stage

Features	Play Dual	Install Dual	Stage Dual	Play Quad	Install Quad	Stage Quad
DVI inputs	2	2	2	4	4	4
Frame lock / Genlock	-	-	Y	-	-	Y
Integrated EDID management	-	-	Y	-	-	Y
Intel based 64 bit multi-display video server	6 Cores	6 Cores	6 Cores	6 Cores	6 Cores	6 Cores
RAM	8GB	8GB	8GB	8GB	8GB	8GB
Additional DVI output for control display	Y	Y	Y	Y	Y	Y
Front touch display 8.9" with 1024x600 pixels	-	-	Y	-	-	Y
DVI video grabbing	-	1	1	-	2	2
HD-SDI video grabbing	-	-	1	-	-	2
Solid state disk for operating system	60GB	60GB	60GB	60GB	60GB	60GB
Solid state disk for media files	240GB	240GB	240GB	240GB	240GB	240GB
Media disk bit rate	450MB/s	450MB/s	900MB/s	450MB/s	450MB/s	900MB/s
Symmetric audio outputs	2	2	2	2	2	2
USB 3.0 ports	Y	Y	Y	Y	Y	Y
Firewire 400 IEE1394	Y	Y	Y	Y	Y	Y
19" case	4 RU	4 RU	5 RU	4 RU	4 RU	5 RU
Shockproof	-	-	Y	-	-	Y
Weight	ca. 20Kg	ca. 20Kg	ca. 27Kg	ca. 20Kg	ca. 20Kg	ca. 27Kg
Size (LxWxH in mm)	545x488x177	545x488x177	673x484x221	545x488x177	545x488x177	673x484x221
Included software licences						
Wings Vioso	2	2	2	4	4	4
Wings Touch	Y	Y	Y	Y	Y	Y
Avio Manager / Avio Service	Y	Y	Y	Y	Y	Y
Show Control	Y	Y	Y	Y	Y	Y
Product training	Y	Y	Y	Y	Y	Y

Customised Hardware

The new media server generation Wings Engine is distinguished by its extremely high-performance hardware and professional design. By means of intensive development and testing of various hardware components we have succeeded in making this server the perfect platform for demanding presentations.

image processing and videowalls

market sectors

A New Level in Flexible Video Processing Power

The C3-540 CORIO®master offers a new, more efficient approach to building video systems. Using TV One's latest CORIO® 3 technology, it gives the user access to new levels of video processing power to achieve new heights of creative and dynamic video displays. CORIO®3 video processing technologies allows the use of layouts which define where each output is used.

Outputs can be separate or grouped together. These can be independently rotated through 360° in real-time, for use in creative video wall applications. Projectors can be used off axis with brightness controls to aid even distribution of the projected image. Multiple layouts can be used simultaneously or a single layout can be designed to tie multiple projectors or monitors together as one large image. Up to 4 layouts can be used at the same time. Edge blending, monitor walls and multiple projectors can show any combination of inputs by setting up video canvases to design each layout. Multiple canvases can be used concurrently to choreograph collective layouts into a video design. To assist functionality in the design further Windows can be positioned, resized and rotated up to 360° on the canvas, which is then sent to the predefined layout. A canvas can be duplicated on numerous layouts enabling it to be displayed in more than one location, or on one screen for monitoring.

The CORIO®master can dedicate one layout as a multi-viewer to display sources on a single monitor for previewing during live events, or to use as a status monitor in various types of installations. Graphic images can be loaded into the CORIO® master for use as a Window on canvases via the USB connector on the back of the unit. Control of the CORIO® master is provided by a multiplatform software package that provides an intuitive way of defining the canvas and setting up layouts. Presets can be saved and recalled. Any changes made to the canvas can be transferred to the layout.

Features and benefits:

- Single or multiple output layouts (4 maximum)
- Single or multiple canvases (4 maximum)
- Real-time 360° individual output rotation
- Simultaneous use of multiple layouts and canvases
- One or more Windows (PIP's) on each canvas with 360° rotation of each window
- PC control software available
- Low power consumption - 150W
- Configurable modular based system - with 16 available slots
- Now available - new HDBaseT output card

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The advantage of the CORIO®**master** … the flexibility to be different.

CORIO®**master** *… a new level of video processing for Videowall applications, utilize irregular combinations of monitors, independent resolutions, image rotation & scaled outputs*

- *NEW CORIO®3 processing*
- *Modularity provides flexibility*
- *4x28 DVI-U* to 28x4 DVI-U* I/O*
- *Any format I/O with up/down/cross conversion*
- *Analog: PC resolutions to 2048 x 2048, HDTV to 1080p60*
- *DVI: PC resolutions to 1920x1200, HDTV to 1080p60 w/EDID*
- *Automatic incoming resolution detection*
- *Video signal parameter adjustments*
- *4:4:4 Full bandwidth sampling*
- *HDMI compatible I/O with HDCP*
- *Optional redundant power supply*
- *Interfaces: RS-232 & IP*
- *Windows control software*
- *5 Year Warranty*

* DVI-U The Universal I/O compatible with HDMI, DVI-D, DVI-A, RGBHV, RGBs, RGsB, YUV, YPbPr, CV, Y/C

tvone TRAINING ACADEMY
EDUCATION • EXPERTISE • EXCELLENCE

The TV One Training Academy provides courses for end users, distributors and installers. Book online at **www.tvone.co.uk/trainingEMEA** or email **training.europe@tvone.com** for more information

tvone

The Video Processing Specialists

www.tvone.eu

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image processing and videowalls

Since its incorporation in 1984, TV One has been supplying the Professional AV and Broadcast markets with award-winning products including a vast range of video switcher / scalers / multiviewers that incorporates our award-winning CORIO2 proprietary technology. High-quality scaling between standard video, SD/HD-SDI, DVI or analogue computer and HDTV signals is possible and extra features include seamless switching, PIP, chromakey, lumakey, mixing, edge blending and genlock. TV One can quickly supply over 200 premium-quality audio and video processing products across the country along with full training across their ever expanding range.

Corio®matrix TVOC3-340

The C3-340 CORIO®matrix scaler routing switcher from TV One is audio / video matrix with up to 32 channels for inputs / outputs across a broad range of signals using 3G-SDI/HD-SDI/ DVI-U connection combinations.

Features and benefits:

- DVI-U inputs / outputs: (HDMI/CV/YC/RGB/YPbPr)
- SDI inputs / outputs: (SD/HD/3G-SDI)
- High resolution inputs / outputs
- HDMI compatible input and output with HDCP
- 4:4:4 full bandwidth sampling
- Video signal parameter adjustments
- Integral audio routing
- Audio de-embed / embed for SDI and DVI
- Interfaces: RS-232/422/485, USB, IP
- 4RU frame size
- Modularity provides flexible I/O
- Mix scaling and non-scaling output modules

Universal Input Seamless Switcher C2-8000 Series

Features and benefits:

- DVI-U inputs (HDMI/CV/YC/RGB/YPbPr)
- SDI inputs: up to 2 SD/HD/3G-SDI + re-clocked out, SDI outputs: up to 2 (SD/HD/3G)
- DVI-U outputs: 2 (HDMI/CV/YC/RGB/YPbPr)
- Genlock inputs: 1x tri/bi with loop-through
- HDMI compatible input and output with HDCP
- Motion compensation and 3:2 pull-down
- Automatic incoming resolution detection
- 4:4:4 full bandwidth sampling
- Variable image zoom to 10x and Shrink to 10%
- Chroma and luma keying
- Fade, wipe, push, cut transitions
- Video signal parameter adjustments
- Audio de-embed / embed for SDI and DVI
- Closed-caption de-embed / embed for CV / SDI
- Still image store
- RS-232/422/485 interface, IP Interface

C2-8000 Series Products (I/O)

C2-8110
x6 DVI-U x2 DVI-U

C2-8120
x8 DVI-U x2 DVI-U

C2-8130
x12 DVI-U x2 DVI-U

C2-8160
x10 DVI-U (x1 AES3-id) x2 DVI-U

C2-8210
x8 DVI-U x2 3G/HD/SD-SDI, x2 DVI-U x2 3G-HD/SD-SDI

C2-8260
x6 DVI-U x2 3G/HD/SD-SDI, x2 DVI-U x2 3G/HD/SD-SDI

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4 Window DVI-U Video Processor
CORIOview C26104-A

Features and benefits:

- 4-Window processor
- 4x high quality CORIO®2 scaling engines
- DVI-D I/O support to 1920x1200,1080p@60Hz
- DVI-A I/O support to 2048x2048, 1080p@60Hz
- Analogue supports RGBHV, RGBS, RGsB, YPbPr
- 10 user-definable pre-sets for quick setup
- Motion adaptive de-interlacing and noise reduction for YUV and YPbPr inputs
- Variable image zoom to 10x and shrink to 10%
- Per-pixel or percentage scaling control
- Front panel includes LCD, menu control and quick setup features
- Control via RS-232/RS-422/RS-485, Ethernet or front panel, or CORIO Tool Suite compatible
- 1RU rack-mount case

Dual-PIP DVI-I Video Scaler
1T-C2-750

Features and benefits:

- Dual scalers
- 2x DVI-I inputs
- 2x internal still image stores
- DVI-D I/O support to 1920x1200,1080p/60
- DVI-A I/O support to 2048x2048, 1080p/60
- Analogue supports RGBHV, RGBS, RGsB and YPbPr
- Control via RS-232, IR or Front Panel
- Windows control panel
- Variable image zoom to 10x and Shrink to 10%
- Per-pixel or percentage scaling control
- Chromakey and lumakey

Edge Blender
C2-2450A

Features and benefits:

- Inputs: DVI-D and analogue RGB/YPbPr
- Outputs: DVI-I and analogue RGB/YPbPr
- Temporal interpolation and diagonal interpolation
- Automatic incoming resolution detection
- Black and white test outputs
- 4:4:4 full bandwidth sampling
- Video signal parameter adjustments
- RS-232 and IP interface and Windows control panel
- Variable image zoom to 10x and shrink to 10%

Universal Scaler Plus
C2-2375A

Features and benefits:

- SDI inputs: 1x SD/HD/3G-SDI with re-clocked out
- DVI inputs: 2x DVI
- Analogue inputs: 2x CV/YC/YUV/YPbPr
- Genlock inputs: 1x tri/bi with loop-through
- SDI outputs: 2x SD/HD/3G-SDI (duplicated)
- DVI outputs: 2x DVI
- Analogue outputs: 2x CV/YC/YUV/YPbPr
- 2nd DVI/analogue output can be different format
- Motion compensation and 3:2 pull down
- Noise reduction for PAL, NTSC and 1080i inputs
- 4:4:4 full bandwidth sampling
- Audio de-embed / embed for SDI and DVI
- Borders with variable size and colour
- RS-232/422/485 and IP interface
- Variable image zoom to 10x and shrink to 10%

Universal I/O Video Switcher/Scaler
C2-2355A

Features and benefits:

- Inputs: DVI-D, YUV/YPbPr, RGB/YPbPr, CV, YC, plus SD/HD-SDI on model C2-2355A
- Outputs: DVI-I (RGB/YPbPr/YUV), CV, YC, plus SD/HD-SDI on model C2-2355A
- Motion compensation and 3:2 pull down
- Temporal interpolation and diagonal interpolation
- Automatic incoming resolution detection
- 4:4:4 full bandwidth chroma sampling
- Video signal parameter adjustments
- Integral 4x1 stereo audio routing switcher
- RS-232 and IP interface and Windows control panel
- Variable image zoom to 10x and shrink to 10%
- Mix, PIP, chroma / lumakey and edge blending

Technical solutions:

TV One incorporate a large array of features that allow them to integrate easily into any AV system, using their Corio 2 and 3 chipset multi-format input and output switchers allow freedom of use on the road for rental customers who need a fully flexible product to allow any analogue or digital source to be entered into the system at any point during a show or for lecture theatres for when those all-important surprise guest speaker arrives using a MAC device. Custom resolutions allow freedom to tailor your output whatever the source being switched to, giving you confidence that the end result will be crisp and correct. A large range of smaller scaling boxes and format converters can be added to any old system. This will allow any analogue system to be integrated with newer upgraded HD panels or projectors without having the need to upgrade your old system to digital.

image processing and videowalls

ANALOG WAY
Pioneer in Analog, Leader in Digital

market sectors

What is the point of a seamless switcher?
The idea behind seamless switching is simple really; it is the only way to switch between different inputs on a display device without any obvious joins. Be it a projector, plasma, LCD or any other display, they all have a native resolution and will perform best if given this as a source. All your input sources are managed by the switcher and scaled or converted to meet the native resolution of the display. Switchers have advanced quite a bit in recent years, with the advent of multiple PIPs (Picture-in-Picture), soft edge blending and now into the realms of High Definition.

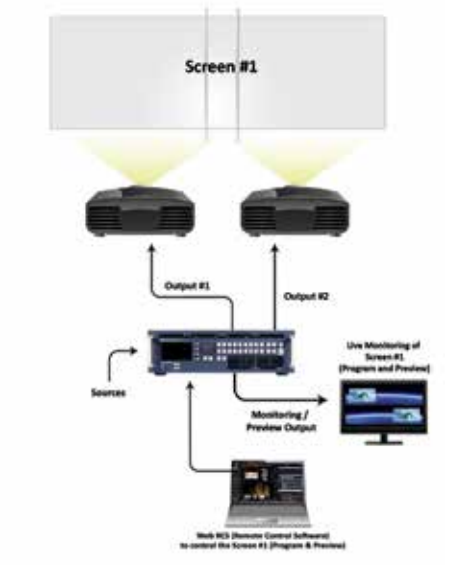
Whatever the requirement, we have a solution.
Scan converters, in a nutshell, will take your data source, VGA.DVI etc. and push out the signal at video level, YUV, SDI etc. There are various levels of quality and format within the range, so you don't pay for what you do not need. Scalers effectively do the exact opposite of the scan converter. So video formats in, and out-putting at data level. They are often used for up-scaling or improving the resolution of a source. Multi-format converters are basically a combination of the two. If on one day you need to convert SDI carrying the audio to DVI with audio on RCA connectors, and the next VGA in and convert to PAL, then a multi-format converter is the one for you.

NeXtage 16
ANANXT1604

NeXtage™16 is a high-end seamless switcher with dedicated live processing, designed with a rugged reinforced chassis and hardware for demanding live events. Equipped with 16 scalers, 8 seamless inputs and 2 main outputs, NeXtage™16 offers 28 input plugs: 4 x HDMI, 6 x DVI-D, 2 x DisplayPort, 8 x 3G-SDI and 8 x universal analogue. With 4 independent true seamless layers per screen, as well as an independent native background layer included for soft edge blending or individual screen modes, NeXtage™16 is an exciting tool to create impressive shows.

Features and benefits:

- New LiveCore™ platform
- 8 seamless inputs and 28 input plugs
- Independent preview / mosaic / monitoring output
- Full live preview of all sources (preview / mosaic / monitoring)
- 4 true-seamless scaled layers + 1 native background layer
- Outstanding visual effects
- Communicative architecture
- User-friendly and intuitive graphic interface
- Remote services



Di-VentiX II
ANADVX8044

Multi-layer, hi-resolution mixer, scaler, seamless switcher with keying / edge blending system with 4 scalers.

Di-Ventix II is a versatile multi-layer mixer, scaler, and seamless switcher that can be used in 3 different modes: multi-layer mixer, 8 by 2 seamless native matrix and stand-alone embedded soft edge blending mode. Di-Ventix II offers eight inputs, including four fitted with 3G/HD/SD-SDI and four fitted with DVI. It outputs digital and analogue signals in SDI, DVI and RGB simultaneously with a selection of many formats from HD-TV to VESA 2K.In embedded edge blending mode, the Di-Ventix II provides a stand-alone solution for a two projector large blended screen, either horizontally or vertically blended.

Features and benefits:

- 4 live layers
- 3 modes: seamless mixer, 8x2 seamless matrix or edge blending
- Full digital in / out processing
- Very powerful and easy-to-use soft edge
- Video output option in order to monitor the program / preview at the same time

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ANALOG WAY
Pioneer in Analog, Leader in Digital

Smart Edge
ANASTE100

Hi-resolution mixer seamless switcher with dual output edge blending for large screen and low cost Installations.

Smart Edge is an edge blending system with universal analogue and digital inputs and HD or high resolution output with full high resolution digital processing. Designed for applications requiring wide blended screens either horizontally or vertically, Smart Edge offers ten inputs, including two fitted with SD/HD-SDI, and two fitted with HDCP compliant DVI. It outputs digital and analogue signals in DVI, RGB or HD YUV. A selection of many formats from HD-TV to VESA 2K will enable you to match the native resolution of your display device.

Features and benefits:

- Hi-resolution seamless switcher with dual output edge blending
- Up to 3 x STE100 for large screen with 6 video projectors
- 10 inputs including 2 x DVI-I and 2 x 3G/HD/SD-SDI
- 1 Live PIP on a live background with numerous effects
- Dual PIP mode on coloured background
- Horizontal or vertical edge blending

Smart Edge FX
ANASTE200

Advanced hi-resolution seamless switcher with dual output edge blending for large screen dedicated to high-end AV presentations.

Smart Edge FX is a new addition to Analog Way's edge blending solutions. Smart Edge FX offers up to twelve inputs, including four fitted with 3G/HD/SD-SDI and two fitted with HDCP compliant DVI. It outputs digital and analogue signals in DVI, RGB, and offers a video output card providing SD or HD-TV formats in various signals from composite video to HD-SDI.

Smart Edge FX can display up to four layers including one logo, one frame, and two live layers customizable by the user. The product allows the display of up to two PIPs on a still background, or one PIP on a live background. Seamless transitions are available as well as a variety of visuals effects which can be combined during transitions (dynamic PIP, flying, zooming and cropping PIP).

Features and benefits:

- Hi-resolution seamless switcher with dual output edge blending
- Full high resolution digital processing
- 4 x 3G/HD/SD-SDI
- 2 PIPs on frame background with logo
- Up to 3 x STE200 for large screen with 6 video projectors
- Horizontal or vertical edge blending

Pulse
ANAPLS300

Multi-layer hi-resolution mixer seamless switcher with 2 scalers for large screen projections, conferences rooms and houses of worship.

The Pulse offers up to 10 inputs including 2 fitted with digital DVI and 2 fitted with SDI. SDI is compatible with SD and HD TV formats so is DVI which offers computer formats in addition. With state of the art 100% digital processing, the Pulse outputs digital and analogue signals in DVI and VGA (RGBHV) simultaneously with a selection of many formats up to Computer 2K.

Features and benefits:

- Seamless transitions between ANY source
- Dual scaler
- 1 live PIP on a live background with numerous effects
- 10 inputs and power in a single rack unit
- Versatile for any kind of live application or high-end installation

Technical solutions:

As any rental and staging company knows reliability, flexibility and ease of use are big factors for any hire fleet. Yet delivering that WOW factor is now more important than ever. With Analog Ways range of seamless switchers, you can now cater for a vast array of signal types, and with the ability to switch any source using a list of cool transitions and smooth moving PIP's. Transform a seemingly mundane Power Point presentation into something dynamic and with just the right amount of impact for your clients to deliver their message.

image processing and videowalls

CALIBRE
CREATING TECHNOLOGY

market sectors

With a wide range of scaling products including basic scalers, mid-market switchers and premium warp and blend scalers, Calibre focusses on providing high performance ProAV scaling solutions at affordable prices.

The Company also provides image scaling and processing technologies for use in digital cinema, large venue projection, surgical medical applications and broadcast / television studios, manufacturing products under its own brand-names as well as providing products and technology to several market leaders in the ProAV market Worldwide.

Key products include the HQView and LEDView low latency scalers, PVProHD scalers with powerful image improvement capabilities and VideoExcel and FoveaHD broadcast video processors.

Calibre has achieved World recognition providing image scaling technology for use with large LED videowalls primarily used for Concerts, Award Ceremonies, Rental / Staging and Advertising and for image scalers for professional projection applications.

As a market leader in innovation, Calibre utilises its own in-house hardware and software design teams for all product development, with technology centres in Bradford, UK and Hannover, Germany and its own factory in Bradford, UK. This enables Calibre to optimise product performance and retain an unusually high depth of technical knowledge of the design. As such, Calibre is a highly effective OEM partner to many well-known companies in specialist markets, providing customised image scaling and processing solutions.

CALIBRE
CREATING TECHNOLOGY

HQView Scalers

Scalers, Scan Converters & Switchers with Edge Blend, Geometry Correction and Warp Mapping Options

HQView100/200/300 Series

- **Compact** task-specific image scalers

HQView400/500 Series

- **1U Multi-Input Scalers**, Scan Converters & Switchers

LEDView Scalers

LED Screen HQV™ - Scaler–Switcher with 3G-SDI

LEDView530

- **Stunning image quality** in a highly flexible LED wall image scaler
- **Fast set-up** front panel LCD menu & jog wheel navigation
- **Easy configuration** via 4-sided drag and drop for sizing the picture to fit LED screen
- **Live event friendly** featuring low latency and flexible connectivity

www.calibreuk.com

CALIBRE
CREATING TECHNOLOGY

HQV™ Scaler with Warp Mapping Edge Blend and HDMI / DVI In / Out
HQView325

HQView325 features 4-sided soft edge blend with multi-region black level correction for seamless blending of multiple projectors. It also includes flexible geometry correction functions able to correct image shape and projector misalignment by dragging and dropping each image corner, or by pin / barrel, rotation or by keystone and rotation.

Full warp mapping is also supported by HQView325. A PC application is included for easy warp map creation or third-party generated warp maps can also be processed from automatic image alignment systems making HQView325 ideal for stacked projector alignment and curved screen multi-projector tiling.

HQView325 has digital I/O compatible with DVI and HDMI including deep colour support.

Features and benefits:

- Best in class professional image processing in a compact affordable 1U format
- Improve video image quality with better detail and clarity
- Powerful geometry correction for off-axis projection, pin / barrel, image rotation
- 4-Sided soft edge blend for tiling multiple projectors to produce large images
- Flexible warp mapping for curved screen projection, simulation and alignment

Universal HQV™ Scaler-Switcher-Scan Converter with Warp Mapping, Edge Blend and 3G-SDI In / Out
HQView 530

HQView530 features 4-sided soft edge blend with multi-region black level correction for seamless blending of multiple projectors and includes flexible geometry correction functions able to correct image shape and projector misalignment by dragging and dropping each image corner, or pin/barrel, rotation or keystone and rotation.

Full warp mapping is also supported by HQView530. A PC application is included for easy warp map creation or third-party generated warp maps can also be processed from automatic image alignment systems.

Features and benefits:

- Best in class professional image processing in a compact affordable 1U format
- Front panel jog-wheel and LCD display for fast easy set-up in the field
- Use as a routing switcher and universal interface for 3G-SDI, HD-SDI, DVI or HDMI switching and distribution systems, projectors and displays
- Improve video image quality with better detail and clarity
- Superior de-interlacing reduces image flicker and artefacts
- Remove picture noise from poor quality video sources
- Powerful geometry correction for off-axis projection, pin / barrel, image rotation
- 4-Sided soft edge blend for tiling multiple projectors to produce large images
- Flexible warp mapping for curved screen projection, simulation and alignment
- Genlock and I/O lock for in-camera and edge blend use

LED Screen HQV™ Scaler-Switcher with 3G-SDI
LEDView530

LEDView530 provides outstanding image quality on LED video walls. It features 4-sided edge drag and drop for sizing the picture to fit the LED screen, making system configuration very easy.

Features and benefits:

- Best in class professional image processing in a compact affordable 1U format
- Front panel jog-wheel and LCD display for fast easy set-up in the field
- Use as a routing switcher and universal interface for LED screens
- Improve video image quality with better detail and clarity
- Superior de-interlacing reduces image flicker and artefacts
- Remove picture noise from poor quality SD video sources
- Powerful picture re-sizing to fit LED screen with simple edge drag and drop
- Genlock and I/O Lock for in-camera use
- Multiple-Unit Mode with autozoom to support huge stacked LED walls
- Multi-function universal processor for LED and Projection rental
- Projection mode with HQView530 projection mapping warp and edge blend support

Technical solutions:

Calibre offer a wide range of image processing products that have been designed to meet demanding application for non-standard image display. With built-in edge blending and geometric correction you can use the Calibre products with basic display solutions but producing high-end finishes. Calibre works well when producing a solution where a curved projection surface is to be used as the outputted image can be manipulated to fit and fill the total image area with high quality scaling.

BrightSign
XD
IR Out
RS-232
GPIO
BrightSign
HD
RS-232
GPIO

digital signage solutions

signagelive delivering media to your screens

Signagelive provides digital signage software as a service; no servers, fixed pricing and all support and updates include. Our Digital Signage Software is used globally every day to deliver digital signage in a diverse range of sectors and applications. The following pages reveal a selection of the most popular choices. www.signagelive.com

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BrightSign®

BrightSign is the complete solution that goes beyond standard digital signage offering high performance solid-state devices, powerful feature-rich software and networking options for turnkey content management and delivery. www.brightsign.biz

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NEXCOM

NEXCOM is committed to being your trustworthy partner in building the digital infrastructure. To surpass customers' expectations, NEXCOM makes the difference by utilising its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. www.nexcom.com

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hd player™

stumpfl®

The HD Player Pro by AV Stumpfl supports High Definition video playback from CompactFlash card. The HD Player does not contain any wear or shock sensitive parts and is therefore the optimum solution for continuous operation. Its compactness and low price open up new fields of application. http://europe.avstumpfl.com/en

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digital signage solutions

Digital Signage

Digital Signage, consisting of out-of-airport solutions and narrowcasting, is a more innovative method of communication. Digital Signage is a complex technology which allows the user to show a mix of promotional communications, objective information and qualitative content to a specific audience.

Retail

The retail sector is by far the biggest single vertical market for digital signage. Retailers use digital signage for sales, marketing and branding purposes. Dynamic images for advertising are far more attractive than paper posters and offer greater flexibility for a given space. With digital signage, it is possible to show a broad range of different adverts on the same display while managing and monitoring content remotely. Many retailers already employ digital signage systems on a global basis because it is quick, efficient and affordable.

Public Display

Post offices, ski pistes and town houses are just a few public places that are often visited by a large number of people. Digital signage is an infotainment technology and customers can be informed about important facts or they can be entertained whilst they wait to be served.

Corporate Communication

Digital signage is an excellent tool for communication. In the workplace, it is used to inform and educate staff on health and safety, upcoming events and messages from management. For visitors it enforces an organisation's brand identity, entertains visitors in reception and shows the way to meeting rooms.

Public Transport

Railway and bus stations are visited by large numbers of people every day and digital signage can keep passengers updated before, during and after their journey. Instead of a single inconspicuous paper poster with just one message, digital signage can be used to show numerous messages on multiple displays. Pictures, text and video - anything is possible to help make information clear and visible. And using a combination of indoor and outdoor displays will help the message reach its intended audience, regardless of the location.

Banking

A bank is an institution that offers a broad range of products and services. As a result, it can be a challenge to keep customers informed about the various banking products and services. Digital media is the ideal solution to show the latest information as quickly as possible.

Airports

Airports are crowded and hectic places where people constantly arrive and depart. Airport solutions are the perfect medium to provide passengers with real time travel information and guidance. Signage in airports is one of the oldest and best known applications for digital media. It shows passengers a mixture of sales promotions, video clips, movies, luggage information and flight details.

Leisure and Hospitality

Pubs, clubs, gyms and restaurants are all environments that benefit from digital signage. Through advertising campaigns and displaying the latest offers digital signage can offer a good return on investment through increased sales and customer retention. Hotels and convention centres have also recognised the need to incorporate digital signage into their facilities. Effective digital signage can inform people on the spot and serve as a virtual concierge to keep tourists informed about their holiday resort, give directions, display schedules for activities and even advertise hotel amenities such as restaurants and spas.

Education

Digital Signage enables you to communicate with students, staff and visitors with Conference, Lecturer Theatre and Exam times. In primary and secondary education it can be used to demonstrate pupils' work or class outings. For further and higher education it becomes a tool to sell the benefits of the establishment to prospective students as well as entertaining and informing existing students with campus activities, union messages and campaigns.

signagelive

delivering media to your screens

Global Cloud Based Digital Signage

Free training Free support Great margins

30 day FREE trial

http://

IP TV

signagelive.com

digital signage solutions

signagelive
delivering media to your screens

market sectors

About Signagelive

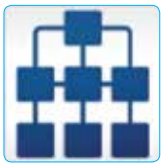
Signagelive is a private company and a world leader in cloud-based media delivery solutions, providing a platform that supports an unrivalled number of different end devices, from mobile phones to SmartTV. Our UK and head office is based near Cambridge and our North American office is based in Chicago IL. We operate globally in over 30 countries, where our Signagelive platform is in use daily powering single devices, through to the largest digital media networks reliably, efficiently and cost effectively.

What is Signagelive?

Our Digital Signage Software platform allows you to deliver rich media to virtually any device from any browser with an internet connection. It's not just about the screens on the wall: from shelf-edge displays to videowalls to the computer's screen saver. Signagelive unlocks affordable messaging solutions across industries and applications.

Hardware Agnostic

We don't dictate what you have to use to power your displays. We've certified dozens of boxes and add new ones all the time. PC's, Android, Mac's and Linux are all supported for your Digital Signage Software needs.



Simple, but Scalable

Manage your network from anywhere, anytime, using any browser. Simply upload assets such as images, videos, live TV and web pages, drag them into a playlist and publish all via the cloud. You can also publish content by utilising meta-data, allowing automatic distribution by region, language, income levels, or anything else you can think of.

Cloud Based

All you need is a display, media player and an internet connection; we take care of the rest. On-premise servers, lengthy installation and complicated licensing agreements are a thing of the past.

Feature packed software! Easy to use, but very powerful

Automate Content

We feel your pain: you don't have the time or the money to hire an agency to create digital signage content for you. That's why Signagelive works with some of the best content delivery companies in the industry. News, sports, weather and entertainment are available, as well as Facebook and other apps.

Use Existing Desktops

With Signagelive Screensaver and Corporate Communication Editions you can use any existing PC to deliver your message. Every time the PC goes into screensaver mode is an opportunity to message: Post important HR messages about health benefits; show reminders on safety training; Show the company's Facebook or Twitter feed. Anything you can do with a screen on the wall, you can do on your company desktops.

Choose Your Own Hardware

Signagelive can run on a standard Windows-powered PC, but did you know that we also certify solid-state media players as well? Looking for HTML5-driven content?

truecolours
true-colours.net

Signagelive

call 01252 876300 email sales@true-colours.net online www.true-colours.net

signagelive
delivering media to your screens

Why Choose Signagelive?

With dozens of Digital Signage software packages available today, making the decision about which one to choose can seem impossible;

- What features do I require?
- What media does it support?
- What are the upfront costs?
- What are the on-going fees?
- And most importantly, What are the hidden costs?

Signagelive keeps it simple and makes it extremely easy for anyone to upload, create multi-zone layouts, build playlists and distribute new content to one or thousands of screens ensuring that your media content is running where and when you specified.

Signagelive has been developed to be the most stable, simple, scalable and cost effective Digital Signage solution available today.

With zero on-site configurations, Signagelive is the easiest Digital Signage solution to install and manage. Just connect a Signagelive device to the internet, login to the Signagelive website and you are ready to go!

No upfront or hidden costs, just a simple cost per month per connected Signagelive device.

With thousands of worldwide locations currently live, decide to power your Digital Signage network with Signagelive and you'll be in good company.

SmartLFD – SmartTV technology for the commercial world

Digital Signage has changed; all you need is a Smart Display, Internet and Power

The digital signage industry has evolved from Windows PC to non-PC playback devices over recent years, driving down costs whilst increasing functionality and reliability. Signagelive are pioneers in the move towards non-PC technology for use in digital signage applications.

At ISE 2013 we launched our collaboration with Samsung to support their new range of Signage Displays. The Samsung Smart Signage Platform eliminates the need for a Digital Signage Player.

The Samsung Smart Signage Displays offer considerable benefits over alternative PC based solutions, including; considerable savings in purchase cost, reduction in energy costs and ease of installation and maintenance.

Signagelive has developed a comprehensive solution for the management of Quick Service Restaurants (QSR). The solution enables products to be managed in a cloud-based database including pricing, nutritional information and product grouping. From a simple update on a mobile or tablet or database, price changes will dynamically appear on screen using our HTML5 playback technology.

SAMSUNG

digital signage solutions

BrightSign®

market sectors

BrightSign, LLC is a privately held company located in Los Gatos, California founded in 2002 by Anthony Wood, the inventor of the digital video recorder (DVR). BrightSign is the market leader in solid-state, Full HD, digital sign and kiosk controllers. BrightSign players are known for their signature reliability, affordability and ease-of-use by the commercial digital signage market worldwide.

The BrightSign Solution

Designed exclusively for digital signage, BrightSign's slim OS delivers superior signage capabilities and exceptional Full HD video quality with a dependable solid-state platform. All BrightSign models deliver the absolute highest standard of reliability, affordability and ease-of-use. BrightSign's new XD product line is the first of its kind to deliver the features and capabilities of PC-based solutions, as well.

All BrightSign products come with free BrightAuthor software for creating and publishing presentations with ease, and a range of networking solutions including BrightSign Network, an affordable subscription-based hosted service, providing the complete, secure and scalable infrastructure to serve and support your signage network. User permissions, web UI, dynamic playlists, Live Text and BrightControl for controlling screen functions such as power on / off, input and volume through an HDMI connection, are just some of the useful features you get with BrightSign.

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XD Range

PC-Class performance and state-of-the-art video decoding engine with superior scaling technology delivers pristine 1080p @ 60Hz video and uncompromised decoding. Play dual Full HD video simultaneously, including live HDTV via an ATSC / Clear QAM tuner or HDMI input.

Networked Player XD230

Unparalleled performance.

Features and benefits:

- Simultaneous playback from local and networked streaming content sources
- 1920x1080@60p dual decode means 4x more HD video decode capabilities than BrightSign HD
- Supports HTML5, streaming content, live text, RSS feeds, 3D and video walls
- Internal micro SD card slot
- Built-in wired networking to update and manage your signage
- Wireless module available

Networked Interactive XD1030

Robust Interactive.

Features and benefits:

All the features of BrightSign XD230, plus:

- Engaging interactive controls via GPIO, serial, dual USB and Ethernet ports
- Supports touch and swipe screen interactivity
- S/PDIF output for pure digital and surround sound audio

Networked Interactive and Live HDTV XD1230

Premium capabilities.

Features and benefits:

- Top of the line model supporting all features of the XD230 and XD1030 plus support for playing Live HDTV
- Simultaneous playback from local, streaming and live TV content sources
- Play any broadcast content, even protected HDCP content, via the HDMI input
- ATSC / Clear QAM tuner plays cable TV or closed circuit TV broadcasts

HD Range

BrightSign's HD product line is based on advanced technology that delivers highly reliable performance at a very affordable cost. A powerful media-handling platform, robust interactive capabilities and signature ease-of-use make BrightSign HD the winning choice.

Basic Interactive HD120

Unparalleled performance.

Features and benefits:

- Delivers superior quality Full HD 1080p video and image playback with a robust media handling platform
- Supports both looping and GPIO interactive presentations
- Provides multi-zone and full screen layouts supporting video, images and text tickers
- Includes BrightAuthor software to create and publish presentations

Networked HD220

Robust Interactive.

Features and benefits:

- Delivers superior quality Full HD 1080p video and image playback with a robust media handling platform
- Plays looping media presentations
- Provides multi-zone and full screen layouts supporting video, images, text tickers, live text and RSS feeds
- Delivers content updates to remote units via networking
- Offers live text, videowalls, IP streaming and UDP commands support
- Includes free BrightAuthor software and free networking solutions
- Supports the BrightSign Network solution, offering cloud-based content distribution, management and monitoring of your digital signage network

Networked Interactive HD1020

Premium capabilities.

Features and benefits:

Includes all features of the HD220 and HD120 plus:

- Abundant interactive controls via GPIO, USB and serial ports
- Versatile networking abilities via Ethernet supporting live text, RSS media feeds, UDP commands, videowalls and remote content updates
- Includes free BrightAuthor software and free networking solutions
- Supports the BrightSign Network solution, offering cloud-based content distribution, management and monitoring of your digital signage network

digital signage solutions

market sectors

Reliable Partner for Building the Digital Infrastructure

Founded in 1992 and headquartered in Taipei, Taiwan, NEXCOM is committed to being your trustworthy partner in building the digital infrastructure. To surpass customers' expectations, NEXCOM makes the difference by utilising its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries and for solutions which work on this principle.

With its focus on delivering these core values to better serve customers, NEXCOM integrates its capabilities and operates five global businesses, which are Multi-Media Solutions (MMS), Mobile Computing Solutions (MCS), Industrial Computing Solutions (ICS), Intelligent Digital Security (IDS) and Network and Communication Solutions (NCS). This strategic deployment enables NEXCOM to offer time-to-market, time-to-solution products and service without compromising cost.

Fanless Embedded Computer Powered by Intel® Atom™ D525
NDiS 125-L

Features and benefits:

- Intel® Atom™ D525 platform
- Low power consumption
- Compact and fanless
- Powerful NVIDIA ION2 GPU
- Hyper-threading support

Fanless Embedded Computer Powered by 2nd generation Intel® Core™ Processor, Support Dual Full HD Video
NDiS 166

Features and benefits:

- 2nd generation Intel® Core™ processor family platform
- Intel® Integrated Graphics Engine
- Compact and fanless design
- Dual independent display
- Dual GB LAN
- WLAN / TV tuner support

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market sectors

HD Player by AV Stumpfl

The "HD Player" by AV Stumpfl supports professional High Definition video playback from CompactFlash card. Integrated hardware decode acceleration ensures smooth Full HD playback and clear images. Flexible playback, control and configuration options allow the HD Player to be adapted to a variety of different requirements. Integration into the Iseo system and media update via the Internet provides for a decentralised Digital Signage network.

The HD Player does not contain any wear or shock sensitive parts and is therefore the optimum solution for continuous operation. Its compactness and low price open up new fields of application.

HD Player Pro

Videowalls, multidisplay and 3-D projects can be implemented simply and cheaply using the new and innovative HD Player Pro syncing function.

HD Player Pro additionally supports higher data rates of up to 40Mbps for even better video quality, as well as splitting of the display up to 3 zones, thereby allowing simultaneous display of different items of information on one display.

Features and benefits:

- Auto copy-function (HD Player Pro copies data from pendrive automatically on the CF-card)
- Faster reaction on RS232-commands
- Controllable via LAN (TCP)
- Improved synchronisation Function
- Seamless playback of H.264 video files
- CF-card and SDHC-card slot
- NTFS-support (videos tested up to 32GB [mpeg2| 35Mbps])
- Extended log-function

EVOKO
Large Meeting Room
×6
12:45
Next meeting
13:00 - 14:00
Anna
Ends in 15 min

collaborative room solutions

EVOkO

Difficulty finding a free meeting room? 78

The Evoko Room Manager solves this simply with the aid of small, elegant touch-sensitive screens that display the booking status of a meeting room clearly at the door. The complete system is based on Outlook and Google Apps, and this means that you don't have to learn any new software and that you can book a room from your own computer. In addition it has support for Microsoft's "Cloud"-application MSOffice 365, Outlook Web Access and Google Apps for business accounts, which gives you the freedom to book from a distance. The screen displays who has booked the room and for how long, and it is possible to make or cancel a booking directly on the screen.

Entry communications never looked this good

Wouldn't it be nice to have a doorbell that did things you never dreamed possible?

As your visitors drive up, they are greeted at your access gate with a message that says "Welcome to the Harper's". They push the doorbell button and inside you hear a familiar door tone because you selected it. You go to the nearest touch panel and visually identify your visitors thanks to the integrated camera inside the Communicator. The included microphone and speaker allow you to exchange pleasantries and invite them up the drive. With another press of a button, you open the gate right from your touch panel.

The Metreau Entry Communicator - taking the doorbell to unimaginable places.

AMX

collaborative room solutions

market sectors

EVOKO

No more double-booking, interrupted meetings or wasted slots. The Evoko Room Manager is a new system for booking rooms that displays the booking status clearly outside the meeting room on touch-sensitive screens. You book meetings just as you have always done in Microsoft Outlook or Google Calendar. The Evoko Room Manager also makes it possible to check the booking status directly on the touch-sensitive screen, and the red or green background illumination of the screen means that you can see at a distance whether the room is free or not.

Evoko Room Manager - EVOERM1001

The Evoko Room Manager simply consists of an 8" touch-sensitive screen that is placed on the wall outside of the meeting room. The system is connected to the company's Microsoft Exchange Server or Google Apps for Business. No additional software is required. Installation on the server is as simple as adding a new employee to the network.

Clarity is the point

All important information is displayed on the screen: current time, starting time and finishing time of the meeting in progress and how long the meeting will continue.

Book from your office, from the Cloud, or directly on the screen

Due to the support for Microsoft's "Cloud"-application, MS Office 365, Outlook Web Access, and Google Apps for Business, it is possible to book meeting rooms not only from your office but also from anywhere in the world, using the Internet. You can make bookings for today directly on the touch-sensitive screen, using the intuitive symbols and selecting the time interval required. Bookings made in the Evoko Room Manager, in MS Outlook and Google Calendar are automatically synchronised.

The touch-sensitive screen displays an overview of the booking status and enables you to book the room, confirm a booking, cancel a booking or extend a meeting in progress.

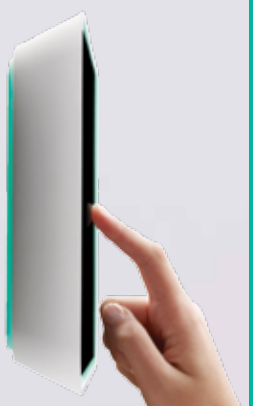
If you choose the "Confirm" function at installation, a booking that is not confirmed 5-30 minutes after the start of the meeting, will be released and the room will be available for new bookings.

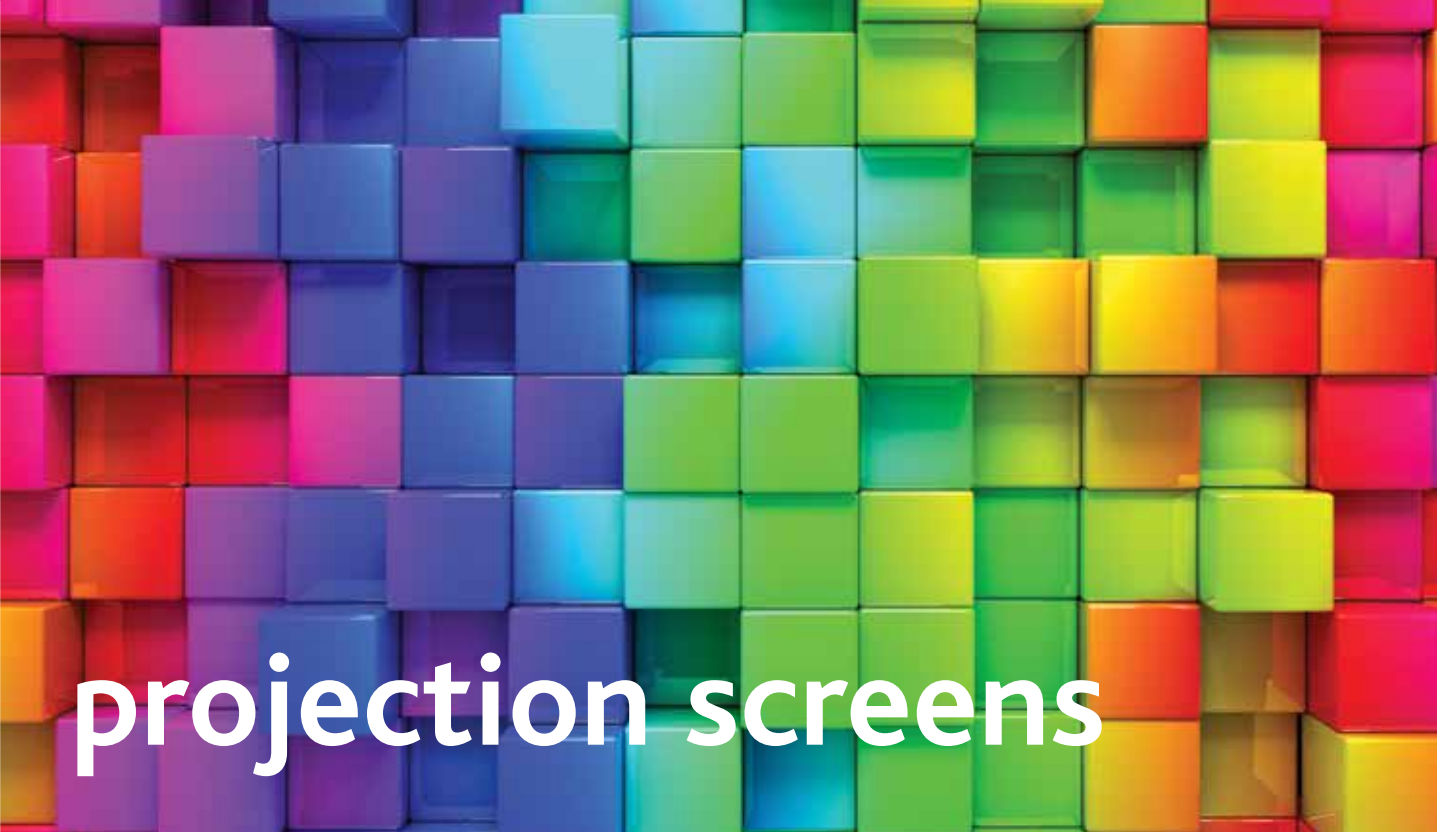
You can also report a fault on the projector or other technical equipment in the meeting room with a touch on the relevant symbol. The flat 8" screen of the Evoko Room Manager gives a discrete impression and blends well into both modern and classical surroundings.

EVOKO
Large Meeting Room
×6
12:45
Next meeting
13:00 - 14:00
Anna
Ends in 15 min

EVOKO
Large Meeting Room
12:45
Next meeting
13:00 - 14:00
Anna
Ends in 15 min

EVOKO
Home





projection screens

AV Stumpfl which used to focus on electronics for slide projection in the beginning, was founded nearly 30 years ago. Soon we realised that only a large picture is capable of really impressing people by its message. This gave rise to great enthusiasm which resulted in the production of our projection screens, manufactured by means of high-quality tools and machinery partly developed by ourselves. www.avstumpfl.com

84

Draper Group Ltd was formed as a new company in December 2008 and the name really reflects our parentage of Draper Inc., USA, www.draperinc.com and our sister company Draper Europe AB, Sweden, www.drapereurope.se

86

Euroscreen has been manufactured in Sweden by Draper Europe AB (formally Bjurab AB) since 1981. Draper is located in Indiana, USA, and is among the world's leading manufacturers of projection screens, window shades and gymnasium equipment. www.draperinc.com

88

Elite Screens Inc. is a California-based projection screen manufacturer with satellite offices in Europe and Asia to support its worldwide distribution network. Its ISO9000-2001 certified manufacturing facilities produce a wide array of projection screens for the commercial and residential audio-visual markets. Elite products are available through authorised distributors, resellers, retailers and system integrators worldwide. http://www.elitescreens.com/

89

DA-LITE Based in the USA, DA-LITE manufactures a wide variety of projection screens for professional presentations and home theatres. DA-LITE has manufacturing operations in the US and Europe and sells its products through a network that spans more than 595 employees and 100 countries worldwide. www.da-lite.com

91

Euroscreen S.r.l was born in 2001 as manufacturer of high quality projection screens. Even if it's a young company, Euroscreen S.r.l is proud of a long time experience thanks to prepared expert technicians who guarantee to the product a high quality level which leads the European and world's offer. www.screenint.com

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projection screens

Projection has been around for centuries in many different forms, from storytelling at night using fire to create shadows onto a cloth surface, to magic lantern shows in the 19th century using coloured glass slides.

It was the movie industry, at the turn of the 20th century, which completely embraced projection onto a projection screen to give the visual "wow" factor for audiences around the globe.

The movie industry recognised that the projector and projection screen combination create the perfect visual experience for the audience to enjoy.

The same principles still apply today for every projector sold and the projection screen is actually the element of this visual partnership that the audience looks at.

The projection screen basics...

What is a projection screen?

A projection screen is a specific surface that enables the image from a projector to be viewed by the audience. The surface has diffusion properties to ensure the projected image is spread across the whole viewing area. It is able to gain which is the amount of projected light that is reflected back to the human eye and in contrast which is level of colour intensify that the eye can see.

Why use a projection screen?

1. Black borders around the viewing area create the aspect ratio and draw the eye into the projected image giving a perceived clarity of vision
2. Projection screens are available in a range of different surfaces
3. The standard flat white surface ensures perfect colour rendition for modern projectors; high resolution and contrast
4. Projection screens are available for many different types of application. It is often forgotten that the projection screen is the element that the audience actually looks at!

Choosing the right projection screen

What is the resolution of your chosen projector?

This will enable the selection of the correct aspect ratio for the projection screen that will best suit the application. For example, if a computer with Powerpoint or Computer Video is needed then perhaps a 16:10 native aspect ratio would be the correct choice or if a DVD player is needed then 16:9 will be required.

Example of aspect ratios:

1:1	Overhead and opaque projection
4:3 (1.33:1)	Computer data and video
16:9 (1.78:1)	High Definition television – HDTV
16:10	Native computer format
15:9	Native computer format
5:4 (1.25:1)	High end data graphics
1.85:1	Widescreen (also known as Letterbox)
2.35:1	Cinemascope

Throw to width ratio for your chosen projector?

The installation of the projector in relation to the projection screen (throw distance) is related to the throw to width ratio that the lens / projector combination can achieve. Room dimensions are key to this.

A useful tool in determining this information is Projector Central who have a comprehensive calculating tool for a huge range of manufacturers and products. Visit: www.projectorcentral.com/projection-calculator-pro.cfm

What are the dimensions of the room?

Determining the size of the projection screen viewing area in relation to the first audience position for business / education environment should be approx. 1.5 x the viewing area height away, as a rule of thumb.

Height of the viewing area should be approx 1/6th the distance of the furthest audience position.

So the room dimensions are important in ensuring a screen viewing area size that can have text read easily by all the audience members, providing comfortable viewing.

What is the height of the ceiling?

The correct height from the floor to the bottom of the viewing area in a business environment for a 16:10 aspect ratio screen is between 100cm to 120cm and in a Home Cinema project with 16:9 this should be between 90cm to 110cm depending on the seating height. This ensures that the audience comfort is maintained for the duration of the showing.

With this in mind, the ceiling height will also play a crucial part in the maximum width of viewing area that will actually fit into the room and still be comfortably positioned.

projection screens

market sectors

Stumpfl Projection Solutions

Founded by Reinhold Stumpfl over 35 years ago, Stumpfl continue to manufacture in their state-of-the-art facility in Wallern, Austria. Using high quality tools and machinery designed by Reinhold they have a small team of committed engineers. They also have offices in both the USA and Russia.

Projection screen range includes:

- Portable large folding
- Standard electric
- Fixed frame
- Borderless fixed frame
- Large electric
- Curved projection screens

Renowned for:

Portable large folding projection screens

AV Stumpfl Vario curved projection screen

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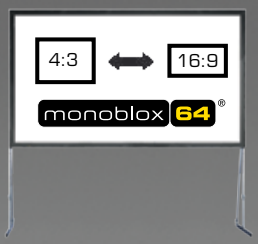
The Original

This mobile projection screen is the world wide standard for professional projection solutions.

Easy Fly™ - suspension clamp with eyebolt for rigging the screen - can be attached quickly and easily at any point.

Solid, stackable transport cases with rollers and a buckle belt well known from the aircraft industry.



Monoblox 64 frames can be easily transformed between aspect ratio 4:3 and 16:9 by simply exchanging the vertical modules.

5 year´s warranty
high-precision snap joints
long-term stability
one-piece folding frame
True aspect ratio
Made in Austria

www.AVstumpfl.com/MONOBLOX

projection screens

DRAPER®
www.draperinc.com

market sectors

Draper Projection Solutions

Founded by Luther Draper in 1902 in the USA, Draper manufactures a comprehensive range of projection screens, projector lifts, plasma lifts and accessories. They have manufacturing facilities in Indiana, Ohio and California supplying customers around the world.

Projection screen range includes:

- Portable desktop
- Portable tripod
- Portable pull up
- Portable large folding
- Manual pull down
- Standard electric
- Large electric
- Fixed frame
- Tab tensioned
- Ceiling recessed
- Rigid rear projection

Renowned for:

The Access V Tab Tensioned Ceiling Recessed projection screens.

YOU HAVE AV NEEDS & DRAPER HAS THE EXPERTISE...

Draper has been a leader in the AV industry for decades. Through constant research and innovation we continue to lead with the quality products and exceptional service our customers have grown to expect. Trust in our expertise to help you grow!

- *Over 40 Distinct Projection Screen Models*
- *Over 30 Quality Front and Rear Viewing Surfaces*
- *10 Unique Projector and Flat Screen Lift Models as well as Custom Designs*
- *Wide Range of Video Conferencing Products*
- *Friendly, Experienced and Professional Staff*

Silhouette/Series V Screen

LCD (Projector) Lift & Signature/Series E Screen

Access/Series V Screens

Ultimate Folding Screen (UFS)

LET'S WORK TOGETHER TO EXCEED EXPECTATIONS!

DRAPER
Draper Group Ltd.

www.drapergroupltd.co.uk

projection screens

market sectors

Euroscreen Projection Solutions

In 1981 this small family owned business started up its operation in Halmstad on Sweden's west coast. In 2003 Draper Inc became the parent company and the company became Draper Europe AB in 2010. Since becoming part of the Draper Group they have been able to increase their portfolio to include projection screens and projector lifts.

Projection screen range includes:

- Portable tripod
- Portable pull up
- Manual pull down
- Standard electric
- Fixed frame
- Tab tensioned
- Ceiling recessed

Renowned for:
Sesame ceiling recessed projection screens.

euroscreen®
Introducing a new projection screen concept.
Thor - the powerful hammer-wielding Norse God, who masters thunder and lightning and unrelentingly pursues his foes. Thor has lent his name to Euroscreen's latest exciting projection screen concept. The Thor model covers a projection screen range up to 450cm in width, and holds several of the much appreciated Euroscreen® characteristics, such as;
~ Built-in Euroscreen® Control Box
~ Level adjustment of screen
~ Channel-fixed fitting
~ Slim and stylish aluminium case
www.euroscreens.se
Patent pending.

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call 01252 876300 email sales@true-colours.net online www.true-colours.net

market sectors

Elite Screens Projection Solutions

Elite is a US company based in California USA with satellite offices in Germany, China, Taiwan, Japan, India, France and the Baltic States.

Projection screen range includes:

- Portable tripod
- Portable large folding
- Manual pull down
- Standard electric
- Fixed frame

Renowned for:

Built-in IR / RF controlled standard electric projection screens.

projection screens

Calculating the correct brightness for a projector and projection screen solution

The clarity of the projected image should possess in order for it to be perceived well (quantity of projected light coming from the projection screen) depends on the following points:

- The amount of ambient light present
- The reflection value of the screen fabric
- Light output of the projector (ANSI lumens)

For the optimum legible projection quality the size of the screen, the reflection value of the screen surface and the light output of the projector should all be attuned to one another.

The following formula applies in calculating this:

$$\text{LUX} = \frac{\text{Output ANSI lumens of projector}}{\text{Surface area of the screen in square meters}} \times \text{Reflection value of screen surface (gain)}$$

The perceived amount of light that is reflected by the screen is expressed in LUX, for an optimal image quality, the ratio between the LUX value of the projected image and the wall behind should be 5:1.

A rule of thumb which can be used with normal ambient light is that when the value of the wall behind is 80 LUX, the value of the amount of light that is emitted by the projection screen should approx 400 LUX.

LUX can be measured by using a photographic light meter.

Custom projection screens

We can offer the following customisation:

- The size of the viewable screen area
- The size of the black borders and masking around viewable area
- The amount of extra backdrop
- The fabric type (typically matte white or high contrast grey)
- The colour of the case (white or black)
- The colour of the dowel bar (weight bar at the bottom of the screen)
- The clients logo or your logo onto the surface

market sectors

Da-lite projection solutions

For over 100 years Da-lite Screen Company Inc has been manufacturing projection screens projection fabrics and projector lifts in their factory in Indiana USA. They have customers all over the globe and other manufacturing plants in Cincinnati and Wichita.

Projection screen range includes:

- Portable desktop
- Portable tripod
- Portable pull up
- Portable large folding
- Manual pull down
- Standard electric
- Large electric
- Fixed frame
- Tab tensioned
- Ceiling recessed
- Rigid rear projection
- Electric uprising

Renowned for:
Custom projection screens.

projection screens

market sectors

SI Projection Solutions

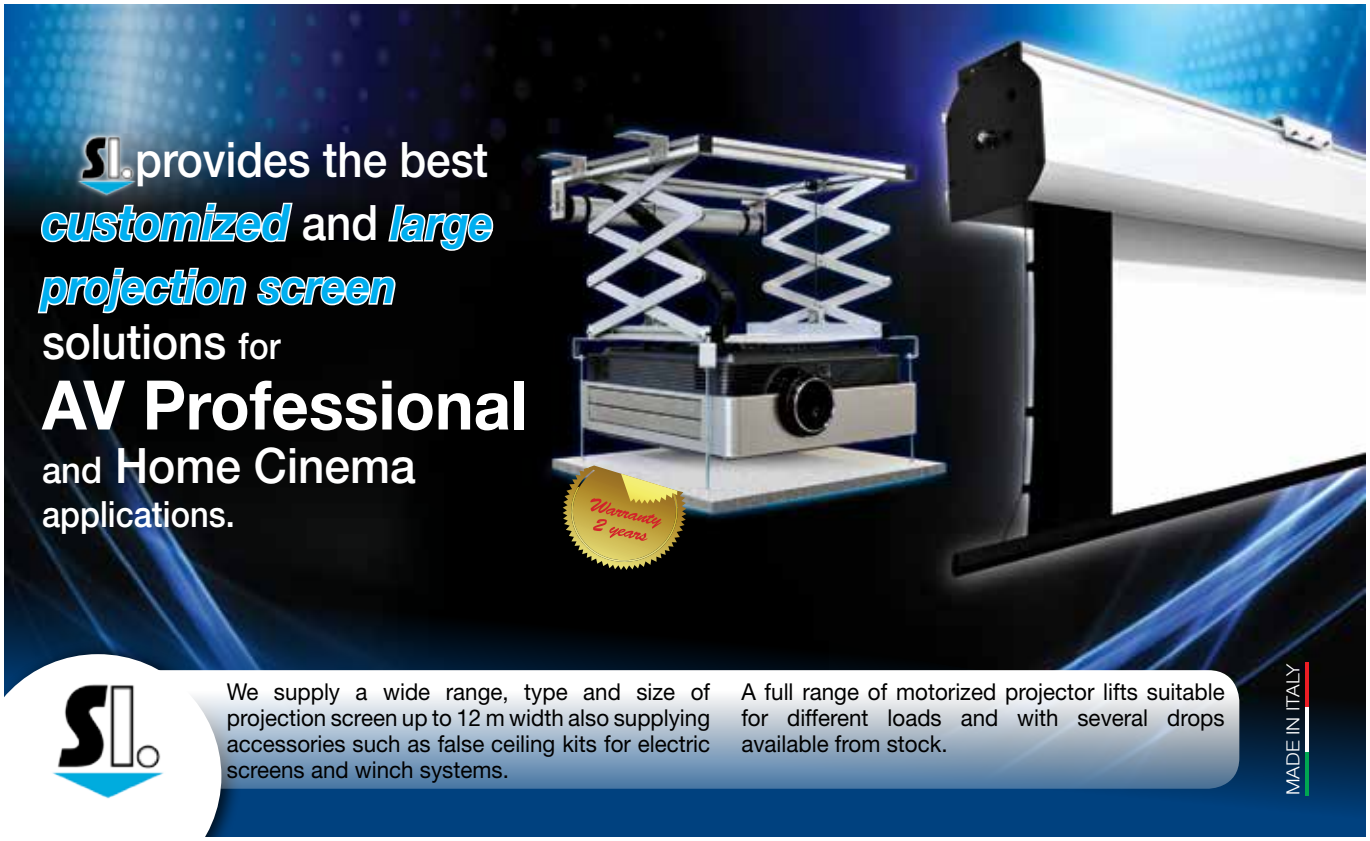
Operating from their factory in Udine in the north of Italy, SI have been producing projection screens and lifts since 2001. Although only a young company, the engineering team has many years' experience with developing projection screens and projector lift solutions.

Projection screen range includes:

- Standard electric
- Large electric
- Fixed frame
- Tab tensioned
- Ceiling recessed
- Projection screen winch system

Renowned for:

Large electric and fixed frame projection screens.


SI provides the best
customized and large
projection screen
solutions for
AV Professional
and Home Cinema
applications.
Warranty 2 years
We supply a wide range, type and size of projection screen up to 12 m width also supplying accessories such as false ceiling kits for electric screens and winch systems.
A full range of motorized projector lifts suitable for different loads and with several drops available from stock.
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We can provide a vast range of projectors for all your projection needs

From desktop projectors to Full HD 3D home cinema, through to large venue projectors from brands such as Panasonic, NEC and Hitachi. Provide your customers with the complete solution by including a projection screen, projector brackets from Peerless and Chief as well as the control and connectivity required from our leading brands such as Atlona and AMX.

Don't forget

Peerless and Chief can provide you with all your bracketry needs offering ease of installation and maintenance for any projection requirement.

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Call your account manager today

* NB. Mitsubishi projectors are only available through Owl Visual.

projection screens

Planning and installation tips

To ensure that you are installing a projection screen that is optimum choice for the room, information is key, so the following tips can help make up the details you will need to make an informed decision.

1 Resolution of your chosen projector - this will determine the aspect ratio of the projection screen.

2 Throw to width ratio of your chosen projector - this will determine the projector position in relation to the projector screen width achievable.

3 Room dimensions, with ceiling height being the most important. Ceiling height will determine max projection screen viewing area height achievable whilst still maintaining the 100cm requirement from floor to the bottom of the viewing area.

4 Type of portable projection screen - tripod, pull up, large folding type.

5 Type of installed projection screen - manual pull down – fixed frame – standard electric – ceiling recessed electric.

6 Thorough site survey of the room to ensure all of the above details are able to be achieved safely, whilst maintaining correct position of the projection screen and to also understand exactly what type of construction of wall (i.e. brick – thermal block – concrete block- plasterboard stud wall etc.).

7 Alternatively, if the wall is not an option then surveying the ceiling void if suspended or if fixed ceiling with a "joist finder" to see if fixing to a joist is possible. The channel fix type of screen design allows for a certain amount of latitude in fixing with the ability to position the bracket along the case length.

8 Installation using plasterboard fixings on the ceiling boards alone may not provide the strongest or safest method; it should be considered that even a 1500mm wide manual pull down screen will weigh 6-7kg.

9 Use of a 'cable finder' will help ensure that the install position will not conflict with any other power supply.

10 For electric projection screen installations, systems like the Euroscreen "Easy Connect" can make wiring easy and safe to achieve, the supplied 3m power cable not only pushes in and locks onto the screen case but comes supplied with a UK 3pin plug to go into an electrical socket. Any electrical spur required to supply the screen or screen wiring should always be installed by a qualified electrician.

11 Any installer not understanding wiring diagrams supplied with projection screens and accessories should contact a qualified electrician.

12 Make sure that the area below where the screen is going to be installed does not have any obstacles that would impede a manual or electric roll down version once fully extended.

13 Always ensure that the projection screen can actually physically fit into the proposed installation area. If you need to get the screen around stairwells or through doorways careful measurements of the site before purchase is undertaken.

14 On electric projection screens the 'DOWN' limit switch only can be adjusted to not drop down as far (adjustment to drop down further not recommended as this will compromise the safety of the fabric overlap on the roller which could cause the surface to fall off). Adjustment of half a turn at a time is recommended normally using a 4mm Allen Key. Always read the installation instructions.

15 The factory set 'UP' limit switch should never be adjusted as damage could occur by the dowel bar being forced into the case by incorrect adjustment.

16 When integrating electric projection screens with remotes or control systems the 'DOWN' limit adjustment must be complete before introducing the remote or control system for safety. We recommend using a cable like the Euroscreen 3m cable with inline switch and UK plug as this facilitates fingertip control using the inline switch to ensure no over adjustment can occur causing damage.

17 Integration of electric projection screens with control systems can either be with infra-red or contact closure. (Infra-red signals can be tested using the camera on a mobile phone which the human eye cannot detect but the phone can).

Summary

Always ask the questions and get the answers before you buy the projection screen. Always do a site survey beforehand following the tips outlined above and bear in mind that the optimum size for a screen is when you don't have to strain to see the whole picture, so do not make the mistake of installing a screen that is too big for the room.

Provide us with as much information as possible and we will do our best to guide you, and remember if an off the shelf product does not suit your particular application; a custom screen could be an option. Once again we can advise you on this too.

P.S. Do not expect to receive screw fixings with your screens. We often get asked for guidance on the types of fixings and manufacturers never supply them as there is no way the can supply every type of screw-bolt etc. for every possible application. You can plan for this when you know the screen and the fixing surface you are dealing with.

av accessories

ATLONA
Connecting technology to your world

LinkConnect HDMI Cables

Increased flexibility, narrower gauges, longer lengths, more choices. All your installation needs covered!

LinkConnect

Part Code	Description	Length
ATL-LC-1.5	LinkConnect High Speed HDMI Cable with 3D	1.5ft
ATL-LC-4	LinkConnect High Speed HDMI Cable with 3D	4ft
ATL-LC-8	LinkConnect High Speed HDMI Cable with 3D	8ft

LinkConnect Select

Part Code	Description	Length
ATL-LCS-1.5	LinkConnect Select High Speed HDMI Cable with Ethernet	1.5ft
ATL-LCS-4	LinkConnect Select High Speed HDMI Cable with Ethernet	4ft
ATL-LCS-8	LinkConnect Select High Speed HDMI Cable with Ethernet	8ft
ATL-LCS-12	LinkConnect Select High Speed HDMI Cable with Ethernet	12ft

LinkConnect Ultra

Part Code	Description	Length
ATL-LCU-1.5	LinkConnect Ultra High Speed HDMI Cable with HEC and ARC	1.5ft
ATL-LCU-4	LinkConnect Ultra High Speed HDMI Cable with HEC and ARC	4ft
ATL-LCU-8	LinkConnect Ultra High Speed HDMI Cable with HEC and ARC	8ft
ATL-LCU-12	LinkConnect Ultra High Speed HDMI Cable with HEC and ARC	12ft
ATL-LCU-16	LinkConnect Ultra High Speed HDMI Cable with HEC and ARC	16ft

LinkConnect Flat Cable

Part Code		Length
ATL-LCF-4	LinkConnect High Speed Flat HDMI Cable with Ethernet	4ft
ATL-LCF-8	LinkConnect High Speed Flat HDMI Cable with Ethernet	8ft
ATL-LCF-12	LinkConnect High Speed Flat HDMI Cable with Ethernet	12ft
ATL-LCF-16	LinkConnect High Speed Flat HDMI Cable with Ethernet	16ft

LinkConnect Plenum

Part Code		Length
ATL-LCP-25	LinkConnect Plenum HDMI Cable	25ft
ATL-LCP-35	LinkConnect Plenum HDMI Cable	35ft
ATL-LCP-50	LinkConnect Plenum HDMI Cable	50ft
ATL-LCP-75	LinkConnect Plenum HDMI Cable	75ft

Further accessories available. Call your account manager today to find out more.

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CHIEF Mounts and trolleys

Wall mounts

Size	Model	Fits (Inches)	Max Weight	Security
Extra Large	XSMU	55 - 80	113Kg	Yes
Large	LSMU	37 - 63	90.7Kg	Yes
Large	LSMVU	37 - 63	68.0Kg	Yes
Large	LSAU	37 - 63	90.7Kg	Yes
Medium	MSMU	26 - 47	57.0Kg	Yes
Medium	MSMVU	26 - 47	57.0Kg	Yes
Medium	MSAU	26 - 47	57.0Kg	Yes

Trolleys and stands

Size	Model	Fits (Inches)	Max Weight	Security
Large Stand	PFCU	42 - 71	90.7Kg	No
Large Trolley	PF1U	42 - 71	90.7Kg	Yes
Medium Trolley	MFCU	30 - 55	56.7Kg	Yes
Medium Stand	MF1U	30 - 55	56.7Kg	Yes
Medium Trolley	MPAU	30 - 55	55.0Kg	Yes
Large Trolley	LPAU	40 - 80	90.7Kg	Yes

peerless-AV Mounts and trolleys

Wall mounts

Size	Model	Type	Fits (Inches)	Max Weight
Small	SF630P	Fixed	10 - 24	36Kg
Medium	SF640P	Fixed	23 - 46	68Kg
Large	SF650P	Fixed	32 - 56	79Kg
Extra Large	SF670P	Fixed	42 - 71	113Kg
Small	ST630P	Tilting	10 - 24	36Kg
Medium	ST640P	Tilting	23 - 46	68Kg
Large	ST650P	Tilting	32 - 56	79Kg
Extra Large	ST670P	Tilting	42 - 71	113Kg

Ceiling mount (videowall)

Size	Model	Type	Fits (Inches)	Max Weight
Large	DS-VWT955-2X2	Fixed	40 - 55	45kg

Trolleys and stands

Size	Model	Mounting pattern	Fits (Inches)	Max Weight
Large Screen Trolley	SC590	Up to 800x400mm	50 - 90	136kg
Single Column Trolley	SR560G	Up to 600x400mm	32 - 65	114Kg

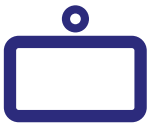
dedicated further opportunities

Supplying the security industry with analogue and IP solutions from world leading brands, security combines the technical expertise and personal service typical of a small specialist firm, with the logistical and financial strength of its parent company.

99

Based in Manchester, RW Salt is renowned as the leading wholesale distributor of commercial and professional audio products in the UK. This reputation has been earned through the industry-leading technical support that they offer to you, their customers and the unsurpassable levels of customer service experienced by installers, hire operators or resellers that have sourced audio products through RW Salt since 1987.

100



RADVISION, an Avaya company, is a leading provider of products and technologies for unified visual communications over IP, wireless and emerging next-generation networks. RADVISION's latest innovations including high performance room systems, unmatched telepresence and desktop communications.

101

MidwichHome is now one of the UK's fastest growing specialist distributors of consumer technology solutions, your single source for Consumer Electronics, Custom Install, Consumer Accessories and Small Domestic Appliances to specialist Consumer Electronic retailers and Custom Installers, offering exceptional personal service with the logistical and financial backing of Europe's leading AV distributor.

102

It is with great pride that we announce the launch of our broadcast division; enabling us to offer a range of professional, industry-standard video products and accessories to you and your customers.

103

IP surveillance solutions

IP surveillance opens up a wealth of new business opportunities and True Colours' competency in this area is second to none.

We have unparalleled knowledge and expertise that has been proven on some of the country's key projects. True Colours were closely involved with installations for Transport for London, the Ministry of Defence and London Underground – so you know you will be in the safest of hands.

Supplying the security industry with analogue and IP solutions from world leading brands, True Colours combine the technical expertise and personal service typical of specialist firms, with the logistical and financial strength of a powerful parent company.

Our broad portfolio includes a vast range of surveillance cameras suitable for many environments, recording equipment, access control devices as well as all the necessary components you will need for a comprehensive and seamless installation, regardless of its size and complexity. And of course, with our highly qualified technical team just a phone call away, we will partner you through all your installations to help you provide the best service and greatest profits.

Furthermore, we are now able to offer a full 'hands-on' experience courtesy of our fully-equipped command and control demo facility – available for training and demonstrations for both you and your customers. We also stage regular workshops at our state-of-the-art Berkshire headquarters where you can learn about new solutions in a practical manner.

This support and training of the latest developments in security technology is an indicator of the lengths we will go to ensure you receive the very best advice, service and expertise available in the industry today.

SAMSUNG Panasonic ideas for life DEDICATED MICROS BOSCH Invented for life TeleEye GRUNDIG

For further information call your account manager today.

dedicated further opportunities

commercial and professional audio solutions

Based in Manchester, RW Salt are renowned as the leading wholesale distributor of commercial and professional audio products in the UK.

This reputation has been earned through their strict-trade only supply policy, the industry-leading technical support that they offer to their customers and the unsurpassable levels of customer service experienced by the installers, hire operators and resellers that have sourced audio products via RWS since 1987.

Whether you are looking to simply source products on a wholesale basis or need assistance with the planning, specification and design of sound systems for your next project, RWS have experience in providing a full service portfolio for many varied installations including: churches, schools, pubs, nightclubs, airport terminals, theatres, sporting and entertainment arenas, hotels, supermarkets, distribution centres and even stadiums.

Whatever you need, RW Salt can provide a full technical support and design package to suit you and your clients, backed up by the supply of all of the world's leading audio brands.

Authorised trade distributors for:

AKG, ALLEN&HEATH, APart, AMPETRONIC, audio-technica, BALDWIN BOXALL, BOSCH, CIOSA, CT, contacta, crown, dbx, DENON, DNH, ES by Canford, iDAL, interM, JBL, M, NEXO, PENTON, QSC, RCF, SAMSON, SENNHEISER, SHURE, SIGNET, Soundcraft, TASCAM, TEAC, TOA, TRACTION SOUND, TRANTEC, Turbosound, Wharfedale, WORK, YAMAHA

For further information call your account manager today.

truecolours
true-colours.net

video conferencing solutions

Video Conferencing is now becoming a widely accepted way to cut costs within a wide range of market sectors, from the traditional corporate market through small to medium enterprise into public sector. With a range of products from RADVISION and AVer, we can offer a VC solution to fit most budget and specifications.

RADVISION® an Avaya company

RADVISION, an Avaya company, is a leading provider of products and technologies for unified visual communications over IP, wireless and emerging next-generation networks.

RADVISION's latest innovations including high performance room systems, unmatched telepresence and desktop communications. Their mobile conferencing solutions are key examples of RADVISION's transformation from an infrastructure provider to a brand delivering a full portfolio of video conferencing solutions.

RADVISION's SCOPIA product portfolio provides comprehensive and powerful visual communication solutions that allow advanced voice, data and video conferencing. The SCOPIA product offering includes network infrastructure solutions for multi-party conferencing, network connectivity and firewall traversal; endpoint solutions for board rooms, conference rooms, desktop and personal video conferencing and also; management software for scheduling, device and bandwidth management and directory services.

The SCOPIA product portfolio is a powerful combination of hardware and software products that is fully standards-based and offers the highest performance available in today's video conferencing solutions. Interoperability and interconnectivity is provided between any video-enabled device, such as a telepresence system, a conference room or a desktop or mobile video system, and with other telephony and unified communications solutions.

AVer™

AVer video conferencing can be summed up in one simple phrase... more for your money.

Effortless video conferencing at an incredibly affordable price is what AVer promises for all of its video conferencing solutions and that is exactly what users have come to expect. All AVer VC systems use the H.323 and SIP protocols so users can rest assured that their AVer VC system is compatible with all major VC brands.

With a number of one-of-a-kind features, industry-leading warranty periods and smooth HD imaging, AVer turns the dream of high-quality, budget-friendly video conferencing into reality for small to medium-sized businesses, universities and many more.

For further information call your account manager today.

dedicated further opportunities

custom installation solutions

Who are MidwichHome?
MidwichHome's custom install arm offers customers a single source for consumer electronics and home technology products and is one of the UK's fastest growing specialist distributors of technology products.

Our trade customers include residential custom installers, system integrators and marine installers and are at the cutting edge of the digital convergence trend. Selling and installing everything from home automation systems to lighting control, security, communication, high-end TVs and displays.

World-leading brands available
Our portfolio comprises the most highly regarded brands in the industry including those below to name a few. These brands are associated with quality, innovative design and superior performance.

AMX · ATLONA · LG Life's Good · MONITOR AUDIO design for sound · ONKYO · SAMSUNG · YAMAHA

Dedicated support
Focusing on the Custom Installation business with a wealth of channel experience, MidwichHome have internal and external sales teams and in partnership with True Colours Distribution can offer excellent training, pre and post technical support. External sales representatives are available to provide face-to-face customers visits across the country.

More than just a distributor
Key services available include full pre and post-sales technical support, entry to advanced training, 24/7 online ordering via **www.midwichhome.com**, high quality marketing material, demonstration equipment and sales visits.

For further information call your account manager today.

truecolours
true-colours.net

broadcast solutions

It is with great pride that we announce the launch of our broadcast division; enabling us to offer a range of professional, industry-standard video products and accessories to you and your customers.

Over the coming months we will be adding to this portfolio with the objective to provide products and solutions which cover the full broadcast spectrum.

"Our vision and key to the success of the new division is to work with the very best manufacturers of leading broadcast and professional video brands to create solutions which encompass the full workflow of a professional video environment, and all supported by experienced industry professionals."
Dave Raymen, Technical Director

Target market
Our intention is to provide professional video and audio products and accessories based on our considerable industry knowledge and experience. With broadcast output becoming increasingly popular through various mediums, potential markets to target are growing all the time and include:

■ Corporate communication ■ Education ■ The Arts ■ Emergency and Military services

With the dramatic reduction in hardware cost over recent years and the consumer demand for High Definition, these users are keen to and expect to be able to have access to the quality of video and service that they currently take for granted at home. Working together, we will help you to develop new business opportunities to grow your business.

Support every step of the way
Our broadcast division is there for you every step of the way, our industry professionals will be there to work with you to identify opportunity and build solutions that meet with your customers' expectations and budget.

Manufacturers include:

ANALOG WAY · ATLONA · Blackmagicdesign · CALIBRE CREATING TECHNOLOGY · Canon · KRAMER · Panasonic ideas for life · Roland · tvone

For further information call your account manager today.

training facilities

training facilities at True Colours

Demo suite / Command and Control zone

AV equipment:

- AV Stumpfl Wings Platinum
- AV Stumpfl Iseo signage solutions (interactive)
- DEXON image processor
- NEC X462UN 3x2 videowall
- Panasonic 85-inch plasma display
- Samsung 55EXTS display
- Draper AccessV 4m dual projection recessed screen
- NEC PA500U projectors x 2
- AMX control systems
- Radvision XT1000
- TV One CORIO®master
- Samsung 46-inch videowall 2x2 – windmill layout
- Custom Intech control console
- Vigilant desk mount screens x 2
- Zyxel Networking switch
- TeleEye IP surveillance system
- Y-Cam IP cameras
- Koukaam NVR solution

Training room

AV equipment:

- NEC NP3250W projector
- Samsung 650TS touchscreen
- Euroscreen 210cm 16:10 tab tensioned recessed screen
- Evoko Room Manager
- Conrac screens
- Signage displays x 2

Meeting room 1

AV equipment:

- NEC 4020 display
- SP Controls Pixie Pro control system

Meeting room 2

AV equipment:

- NEC NP905 projector
- Euroscreen 180cm 4:3 tab tensioned recessed screen

Meeting room 3

AV equipment:

- Panasonic 65-inch 3D HD display
- Atlona PRO2HD88M
- Atlona wireless LinkCast AV

Other

- Streaming solutions from Exterity and Cabletime

A few words of what our customers think...

We have dealt with True Colours and Midwich for many years, and the specialist service they offer us through pre and post sales makes them one of the suppliers of choice for Focus 21.

Jim Harwood, Focus 21 Communications

Over the last 10 years or so I have worked on numerous projects with the staff at TCD, consciously taking the decision to involve them for their expertise and can do approach to even the toughest of projects. As a company they have always identified the most cutting edge technologies making sure that they understand the product before bringing them to market. In terms of support there is no better distributor that I can think of that I would like to work with more, in fact I am taking them to demonstrate some new products to a valued client tomorrow.

Ian Dudley, Touch Vision

When avsnet formally known as AVSolution Ltd was formed in 2005 we formed a working relationship with True Colours Distribution to supply and advise on audio visual products, It is a pleasure to work with TrueColours as the team fully understood that avsnet offer the very best service to its customers and require the same service for it suppliers. Working with True Colours over the past year has proved hugely beneficial for the Team. True Colours has been able to consistently deliver to the high standards that we expect from our suppliers and with one phone call, they are able to understand just what we require and deliver accordingly.

Mike Burrows, avsnet

I have worked with True Colours for many years with confidence as the team understand the technical need for specialist requirements for large AV system integration projects. The support provided is second to none from the initial enquiry, client demonstrations, quotation to the installation. They always suggest high quality products to fulfil the client brief and provide unlimited service which is what makes them market leading specialists.

Ian Wallington, Pro AV

ComputaCenter and the True Colours team have worked closely together on many projects. They have continued to support us through some very interesting and demanding clients, which have required the highest level of service from a distributor.

James Burke, Computacenter (UK) Ltd

I have worked with True Colours for a few years now and I don't think twice about which specialist's team I wish to use. Not only do they offer outstanding products and service but they also offer brilliant support and provide you with confidence for every project pre and post sales.

Daryl Clark, Digital Message Ltd

True Colours services and support are second to none; they deliver first class solutions every time. I would recommend them for every project.

James Wagstaff, Central Presentations Ltd

training dates

Training at True Colours

After the success of our Technology Workshops in 2012, we will continue to grow and enhance these for the coming years.

Our Technology House will be filled with products and manufacturers from across the Midwich Group providing a new solution every time. This will allow our customers to view all of our products operating together in a working environment.

To learn more about these technology days please visit **www.true-colours.net/training.html**

Alongside our open workshops we will be running dedicated training sessions on our products. For further information on this please visit **www.true-colours.net/training.html** or email **training@true-colours.net**

Our training sessions are on a first come first served basis. Book early to avoid disappointment.

Technology Exposed is now an official date in your diary, the Midwich Group event will be sure to bring your spectacular solutions all under one roof.

Further details will be available on **www.technology-exposed.com**

support when it matters most

At True Colours Distribution we have an excellent track record in supplying technical support and products to our resellers. As a company, we know that distributing great products is simply not enough, which is why we're committed to providing the highest level of service to our customers. True Support is just one of our ways of honouring this commitment - we want your customers to know that their products will be maintained and supported long after the sale has been completed.

Our aim is to offer a professional policy to support you with technical guidance, consultancy and training, and to ensure this service is delivered to the highest standard by certified engineers.

We can provide:

- Pre-delivery configuration
- On-site network configuration
- On-site support
- Phone and email support
- Secure remote system monitoring
- On-site training
- Hardware swap out and extended warranty

True Support in our product - we only sell products that we believe in!

Give your customer peace of mind when return to base (RTB) is not enough; we can offer next day exchange on most of our products. Ask one of the sales team for our very competitive prices!

Basic

www.true-support.co.uk

When you need to be able to call someone in the event of an issue, we add an extra tier of support for our products. Our experienced and dedicated support team is on hand to provide telephone, e-mail and remote support to customers with True Support Basic packages. By forwarding your support calls to True Support you needn't worry about the stress that comes with maintaining a system after installation.

Premium

www.true-support.co.uk

Take support services one step further with our premium packages. Not only do we deliver everything from the Basic package but we also regularly check the system's health and operational status to ensure optimal uptime. In the event of an issue that can't be resolved over the phone or remotely, an engineer will attend your site to investigate further and get things back up and running – making True Support Premium an absolute must for those mission-critical installations.

For further information visit www.true-support.co.uk

truesupport
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